



MESSAGE

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Vice Chancellor

Baba Farid University of Health Sciences, Faridkot is one among 13 Universities of Health Sciences in the Country, which is making a niche in the Medical Education over last few years. It has five faculties of various health sciences, has 146 affiliated colleges and about 35000 students are on roll with the University. In addition to the various courses pertaining to the health sciences, the University has unique distinction of running skilled courses in as many as 60 streams which shall develop human resources which is a great need of the Society. These skilled Courses are in line with the thoughts of Hon'ble Prime Minister. The University is committed for transparency, accessibility, problem solving approach for the students and maintaining standards as per statutory bodies like M.C.I, D.C.I & I.N.C. It is open for the genuine criticism for the development of University. The University and its affiliated colleges are putting every best effort to increase its infrastructure, so that ambience of better learning is created.

In order to keep its standards, for the first time, the University has started doing surprised inspections of various affiliated colleges with an objective to improve the quantity and quality of regular faculty, infrastructure, so that training program becomes a goal oriented and of national standard. When on one side we are imposing code for ideal teachers, then on the other side we also expect that students entering the portal of this University should dedicate themselves for study only, so that they should come out as excellent professionals.

in the end, I welcome all the new entrants to the University.

PROSPECTUS

PUNJAB MEDICAL ENTRANCE TEST (PMET-2015)

For all categories including NRI seats

**For Admission
To
MBBS and BDS Courses**



Baba Farid University of Health Sciences

Faridkot 151 203

www.bfuhs.ac.in

Tel No's: 01639-256232, 256236

Fax No.: 01639-256234

PMET-2015

IMPORTANT DATES

Sr. No.	Event	Date
1.	Availability of Prospectus at University website i.e. www.bfuhs.ac.in . Hardcopy of Prospectus can be had from University after paying Rs. 200/- in cash.	7 th April, 2015 onwards
2.	Last date for online submission of application form through University website i.e. www.bfuhs.ac.in Application fee: Rs. 5000/- (for SC 2500)	<i>Without late fee:</i> 29th April, 2015
		<i>With late fee of Rs. 3000/-:</i> 4th May, 2015
3.	Last date for deposition of application fee in any branch of Oriental Bank of Commerce, through Bank Challan form which will be generated after online submission of application form.	7 th May, 2015 upto 4:00 pm
4.	Candidates can download Admit card from University website www.bfuhs.ac.in	From 11 th May, 2015
5.	Date of conduct of PMET-2015	17 th May, 2015 (Sunday) Timing: 11:00 am to 2:00 pm
6.	Date of Result Declaration	By 21 st May, 2015
AFTER DECLARATION OF PMET – 2015 RESULT SCHEDULE OF FILLING OF ONLINE ADMISSION APPLICATION FORM AND PREFERENCES OF COLLEGES/COURSE FORM		
7.	FILLING OF ONLINE Admission Application Form and PREFERENCES of Colleges/course For Admission through University website www.bfuhs.ac.in	27 th May, 2015 onwards
8.	Last date of FILLING OF ONLINE Admission Application Form and PREFERENCES of Colleges/Course FOR ADMISSION through University website.	15 th June, 2015
9.	1st Round allotment of seats as per preferences given by candidates.	19 th June, 2015 – 20 th June, 2015
10.	Reporting at the allotted Medical/Dental College for Joining & Medical checkup, checking of documents/eligibility of candidates.	26 th June to 30 th June, 2015
FOR NRI CANDIDATES		
11.	NRI candidates have to appear in PMET – 2015 and to obtain eligibility certificate & apply on prescribed Admission application form. For detail visit NRI corner at www.bfuhs.ac.in	

Note:

1. Allocation of seat is provisional subject to verification of original documents/checking of eligibility by the Principal of concerned Medical/Dental College. It is sole responsibility of the Principal to authenticate the eligibility of the allocated candidate before joining/admission.
2. Schedule of next round of online counsellings will be intimated through website later on.

PLEASE NOTE – Read carefully

Candidates are required to go through the Prospectus carefully and acquaint themselves:-

1. Candidates can apply for PMET- 2015 only “**Online**”.
2. Prospectus can be downloaded from the University website www.bfuhs.ac.in
3. Online submission of Application Form may be made by accessing University website www.bfuhs.ac.in
4. Instructions for Online submission of Application Form are available in the Prospectus and on the University website www.bfuhs.ac.in
5. Candidates must follow the instructions strictly as given in the Prospectus and University website. Candidates not complying with the instructions shall be summarily disqualified.
6. **Candidates must retain the following documents with them as reference for future correspondence.**
 - a. At least three printouts of online submitted application form.
 - b. Proof of fee paid
 - c. 3 copies of latest (taken after 01-01-2015) identical Photograph (should be passport size with white background) that scanned and uploaded on the Online Application form.

Note: Photograph should not have cap or goggles. Spectacles are allowed if being used regularly. POLAROID and COMPUTER generated photos are not acceptable. Applications not complying with these instructions or with unclear photographs are liable to be rejected. **Candidates may please note that if it is found that photograph affixed is fabricated i.e. de-shaped or seems to be hand-made or computer made, the form of the candidate will be rejected and the same would be considered as using unfair means practices and candidate would accordingly be dealt with the rules of unfair means.**
7. Please visit our website www.bfuhs.ac.in for all regular and updated information concerning PMET-2015 and admissions/Date of counselling from time to time.
8.
 - a. Candidate must ensure that mobile numbers, E-mail address filled in the online Application form are his/her own as University will make communications by SMS or mail on given mobile number and mailing ID only.
 - b. The Candidate himself/herself shall be held responsible for non-receipt of latest information due to wrong mobile number or mailing address filled in the online Application Form.
9. **Fee can be remitted in the University account through any branch of the Oriental Bank of Commerce through Bank Challan Form which is generated after online submission of application form. Fee shall not be accepted in any other mode. Candidature will be cancelled, who fails to deposit requisite fee.**
10. Fee once deposited in the University account shall not be Refunded/Adjusted in any case.
11. Notwithstanding the participation of candidates in PMET-2015, only eligible candidates, as per Government notification/s, shall be considered for admission.
12. In case of any discrepancy or contradiction between the Government notification/s and the University instructions contained in the prospectus, the letter and the spirit of the notification/s shall be prevailing, however in academic matters the University shall be the final authority.
13. This Prospectus is subject to alteration(s) or modification(s) at any time without notice. For updates please refer to University website from time to time.

I M P O R T A N T
PLEASE READ IN DETAIL

1. All necessary information regarding the taking of PMET-2015, allocation of merit and seeking admission to MBBS and BDS courses in the various Medical and Dental colleges of Punjab affiliated to Baba Farid University of Health Sciences, Faridkot and all applicable rules and regulations, etc., are contained in this PROSPECTUS, PMET - 2015.
2. This Prospectus contains two parts:
Part-I: Pertains to the instructions/procedure how to fill online application forms for PMET- 2015, Mode of PMET-2015 and allotment of ranks. It also contains instructions/procedure how to fill online counselling form and method of allocation of seats.

Part-II: Pertains to admission to MBBS and BDS courses on the basis of PMET - 2015. This part contains the **Punjab Government Notification No. 5/35/2014-5HB-III/559 dated 30/03/2015**. Syllabus for PMET, Specimen of Various Performa.
3. Candidates are advised to read both Part-I and Part-II of the prospectus carefully before filling and submitting the **ONLINE APPLICATION FORM and ONLINE COUNCELLING FORM** of PMET -2015.
4. **An error in filling of ONLINE APPLICATION FORM may result in rejection of such an Application Form. Corrections in the information given by the candidate in the ONLINE APPLICATION FORM may not be permitted after conduct of PMET.**
5. The schedule of Admission/Counselling shall be notified through the Press or University, website. Changes, if any, in the schedule/time table of Test/Counselling etc. will be notified through Press/website of the University i.e. www.bfuhs.ac.in. **No separate intimation letters will be sent.**
6. Candidates must retain this Prospectus with them till admission process is over. Read and comply with all instructions therein strictly.
7. Eligibility conditions for admissions are given in the Part – II of the Prospectus. The Final Eligibility of allocated candidate shall be determined by the Principal of concerned Medical/Dental College before Joining of the candidate.
8. **Sports Category Candidates:** PMET – 2015 qualified candidates of Sports category must send their Gradation Certificate issued by Director Sports, Punjab and other supporting documents including DMC of 10+1, 10+2 examination with printout of online submitted Application Form after declaration of PMET – 2015 result to the University by **5th June, 2015**.
9. The list of the Colleges and availability of seats shown at various places in this prospectus may vary and **the final status shall be displayed at the time of counselling.**
10. It is for the information of all the candidates that compulsory courses in computer applications will be instituted by the University along with professional curriculum in due course. These courses shall be compulsory for all students registered under Medical/Dental/Nursing faculties of this University. The fee structure for these courses will be separate and will be notified later on by the University.
11. There will be no negative marking. **However the candidates who do not darken the fifth oval (i.e. option- E introduced for security reasons) in case of un-attempted questions shall be getting deduction of marks at the rate of one mark per question left in which all the five ovals have been left blank.**

12. The candidate should read the eligibility conditions carefully and just appearing in PMET does not entitle him/her for admission. Eligibility conditions for admissions are given in the Notification. The candidates will appear in PMET at their own risk & responsibility. Allocation of seat is provisional subject to verification of original documents/checking of eligibility by the Principal of concerned Medical/Dental College. It is sole responsibility of the Principal to authenticate the eligibility of the allocated candidate before joining/admission. Those who are not eligible as per Punjab Government Notification will not be considered for admission.
13. **Correct category must be filled carefully in the Online Application Form. No claim shall be allowed if category/categories are not indicated in Online Application Form. Only those candidates who claim reservation by filling category (ies) code in Online Application Form shall be considered for reserved seat.**
 In case candidate wants to make any change in his/her online application form after locking, he/she has to write separate application wherein he/she will clearly describe that what information he/she wants to modify. He will also attach printout of his/her online application form and submit his/her request personally in the University before **16-05-2015 (i.e. one day prior to conduct of PMET-2015)** with correction/editing fee of Rs. 500/- in the shape of Demand draft drawn in favour of Registrar, Baba Farid University of Health Science, Faridkot. **After this date, no request will be entertained for any change in the application form.**
14. This is for the information of all candidates that as per Hon'ble Supreme Court of India, if any incident of ragging comes to the notice of the authority, the concerned student shall be given liberty to explain and if his explanation is not found satisfactory, the authority would expel him from the institution.
15. University has started Health Sciences Library Network (HSLIBNET) to provide access to e-resources to the students of all colleges affiliated with the University for which Rs. 1000/- per year will be charged from all Medical and Dental students.
16. **Post Matric Scholarship Scheme:** SC category candidates are entitled for scholarship from the Department of Welfare, Govt. of Punjab if they fulfill their terms and conditions. SC category candidates, whose family annual income from all sources is less than Rs. 2.5 lacs, are entitled for post matric scholarship as per guidelines of Govt. of India and Punjab Govt. The respective candidates will have to produce an income declaration by the self-employed parents / guardians, stating definite income from all sources by way of an affidavit on-judicial stamp paper. Employed parents/guardians are required to obtain income certificate from their employer and for any additional income from other sources, they would furnish declaration by way of an affidavit on non-judicial stamp paper. The compulsory non refundable fee from such candidates will not be taken by the respective colleges at the time of admission. Respective colleges will claim fee of such candidates from the Director, Research and Medical Education, Punjab as per procedure available on their website. For details regarding this scheme/forms/procedure, respective colleges/candidates should visit the website of Punjab Govt., Deptt. of Medical Education and Research (www.punjabmedicaleducation.org) and University website (www.bfuhs.ac.in). For any query/clarification, candidates/respective colleges can contact the office of Director, Medical Education and Research, Punjab, Chandigarh or Director, Welfare Deptt., Punjab, Chandigarh. For further information and applying for scholarship candidates may visit <http://www.punjabships.gov.in>. It is also responsibility of the concerned candidate to ensure that college has filled his/her application for scholarship in time.
17. Fee Structure for MBBS course at Guru Gobind Singh Medical College & Hospital, Faridkot (Constituent college of Baba Farid University of Health Sciences, Faridkot)

Year	Fee
MBBS First Year	Rs. 80,000/-
MBBS Second Year	Rs. 90,000/-
MBBS Third year	Rs. 1,00,000/-
MBBS Fourth Year	Rs. 1,10,000/-
MBBS Fifth Year	Rs. 1,20,000/-

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PART-I

1. INTRODUCTION

BRIEF HISTORY:

The University was established at Faridkot under an Act of Punjab State Legislature (Punjab Act No. 18 of 1998) in the name of great Sufi Saint Sheikh Farid Ganj-E-Shakar, (1173 1265 A.D.) in 1998 for purposes of affiliating, teaching and ensuring proper and systematic instruction, training and research in Modern Systems of Medicine and Indian Systems of Medicine. It is not only affiliating and examining body but also a teaching and research centre in health sciences. It is expected to play a vital role in improving the standards of medical and health education in the state and in conducting relevant research in all aspects of health sciences, basic as well as applied, which ultimately will ameliorate the health standards of the people of Punjab. It is believed that the university will be a trend setter in developing appropriate modes and models of health care to ensure quality health care to the people.

The University has been recognized by MCI vide letter no. V/11015/3/2000-ME (UG) dated 9th June, 2000. The UGC has also included the University in the list of recognized universities maintained by the University Grants Commission, under section 2(1) of the UGC Act. 1956 vide letter no. F.9-3/97 (CPP-I) dated 4 July. 2002. The Regional Director. World Health Organization, Regional Office for South-East Asia, World Health House, New Delhi has also forwarded the name of the University for inclusion in the World Directory of Medical Schools vide letter No. M12/6212 dated 6 May 2002. The University is also included in the list of Commonwealth Universities and their yearbook 2001 at page No. 692 (Vol. I).

Established with a mission to create an intellectual, academic and physical environment conducive to free flow of ideas and exchange of information between various faculties of the university, between this university and other universities of health sciences in the country and abroad, thereby opening a window to the world for the health professionals, health planners, health managers, biomedical and social scientists and educationalists in health sciences of the country. Efforts are on to establish contact with various institutions towards achieving this goal.

UNIVERSITY'S PRESENT STATUS:

New buildings of the University and its constituent college, GGS Medical College & Hospital were completed in the year 2011. The university was shifted to its new building situated at Sadiq Road, Faridkot in July 2011. Hon'ble Chief Minister, Punjab inaugurated two new University buildings (Senate Block and Academic Block) on 22-09-2011. Hon'ble Deputy Chief Minister inaugurated the Radiotherapy Unit, and other buildings of GGS Medical College & Hospital, on 23-09-2011. The GGS Medical College & Hospital, a constituent college of the University is also shifted to its new building.

The University Campus comprises of GGS Medical College along with Auditorium of 800 capacity, Senate Block, Academic Block, University College of Nursing, University College of Physiotherapy, University Institute of Para-Medical Sciences, University Institute of Pharmaceutical Sciences, Dept. of Nuclear Medicine, Telemedicine, Edusat and a well equipped state-of-the-art 500 bedded hospital, Drug De-addiction & Treatment Centre at Faridkot. The State Institute of Nursing and Para-Medical Sciences, Village – Badal (Muktsar), Institute of Nursing (University Regional Centre) at Shri Goindwal Sahib and Advanced Cancer Diagnostic Treatment & Research Centre and Drug De-Addiction & Treatment Centre at Bathinda are also run by University.

Coveted projects to set up Trauma Centre, Regional Cancer Centre are in process. The University has added to its academic convoy University Library & Informatics Division, Department of Health Sciences Library & Information System, University Centre of Excellence in Research, Rose Garden and Herbal Garden.

The university has started number of employment-oriented diploma courses and certificate programs in health sciences and allied services.

UNIVERSITY'S NEW PROJECTS:

University is on the way to establish

- 1) Super Specialty Block in GGS Medical Hospital, Faridkot
- 2) Mother & Child Block in GGS Medical College, Faridkot
- 3) University Institute of Paramedical Sciences, Faridkot

The University is also in process of developing the following five study centres:

1. Centre for Distance Learning (Medical) and Educational Technology miscellaneous.
2. Centre for Health Systems and Health Services Management.
3. Centre for Bio-information Technology.
4. Centre for Human Resources Development and Health Management.
5. Centre for Population Sciences.

UNIVERSITY'S CONSTITUENT COLLEGES:

1. Guru Gobind Singh Medical College, Faridkot
2. University College of Nursing, Faridkot
3. University College of Physiotherapy, Faridkot
4. University Institute of Pharmaceutical Sciences, Faridkot
5. University Institute of Para-Medical Sciences, Faridkot
6. State Institute of Nursing and Para-Medical Sciences, Village – Badal(Muksar)
7. Institute of Nursing, University Regional Centre, Shri Goindwal Sahib

Recently, Govt. of Punjab has transferred 100 bedded Civil Hospital, Badal to University for strengthening and expanding the connection between rural medical services and the education and research carried on by the Baba Farid University of Health Sciences. The GGS Medical College & Hospital, a constituent college of the University has 25 departments and 20 post graduate departments.

COLLEGES AFFILIATED WITH UNIVERSITY:

At present the University is having 146 affiliated colleges comprising 139 affiliated and 7 constituent Colleges (with an approximately 35,000 students).

University will soon endeavor to achieve excellence in health care delivery and medical education and research in the State. Admissions to various undergraduate and post graduate courses in the affiliated institutions of this University in the State of Punjab are made on merit basis through the conduct of Entrance Tests. The PMET-2015 is being accordingly conducted to enroll suitable candidates in the Medical/Dental Colleges of the State for the session 2015.

The university is now primarily focusing on strengthening postgraduate medical education and research and evolving as a centre of excellence in a rural backdrop.

Selection of the candidates to any institution shall be made on merit and in transparent manner as per Punjab Government Notification/s.

DEFINITIONS:

- (i) "MBBS" means Bachelor of Medicine and Bachelor of Surgery.
- (ii) "BDS" means Bachelor of Dental Surgery.
- (iii) "BFUHS" means Baba Farid University of Health Science, Faridkot.
- (iv) "Council" means the national statutory council regulating a particular discipline such as:-
 - 'MCI' means Medical Council of India.
 - 'DCI' means Dental Council of India.
- (v) "Eligible Candidate" means a candidate who fulfils the requirements of eligibility as prescribed in the Prospectus / Government Notification **as amended from time to time and other notifications issued for this purpose from time to time** and the criteria of Baba Farid University of Health Sciences, Faridkot.
- (vi) "Government Notification" means Notification **No. 5/35/2014-5HB-III/559 dated 30/03/2015 as amended from time to time and other notifications issued for this purpose from time to time** by the Department of Medical Education & Research.
- (vii) "University" means Baba Farid University of Health Sciences, Sadiq Road, Faridkot.

2. ELIGIBILITY AND QUALIFICATIONS:

Eligibility and qualifications will be as per Punjab Govt. Notification **No. 5/35/2014-5HB-III/559 dated 30/03/2015 and its amendments.**

3. FEE REQUIRED WITH ONLINE APPLICATION FORM:

- a) Rs. 5000/- for General Category (RS. 2500/- for SC categories only) be deposited in any branch of the Oriental Bank of Commerce throughout India by using Bank challan form which is generated after applying online through University web site i.e. www.bfuhs.ac.in by due date and time.
- b) Candidates who will apply after 29th April, 2015 required to pay late fee of Rs. 3000/- in addition to the above mentioned fee. The last date of apply with late fee is 4th May, 2015.
- c) **Fee once deposited in University account will not be refunded / adjusted.**

4. IMPORTANT INSTRUCTIONS AND PROCEDURE TO FILL ONLINE ADMISSION APPLICATION FORM FOR ADMISSION TO MBBS/BDS COURSES UNDER PMET-2015.

- i) Before applying, candidate should carefully read PROSPECTUS for eligibility conditions and other important instructions.
- ii) Only one application is to be submitted by a candidate. Submitting more than one application by a candidate is liable to be rejected.
- iii) Candidate ensures that he/she has completed the age of 17 years on or before 31st December, 2015.
- iv) After filling online application, candidate should have to deposit requisite fee in the University account through any branch of the **Oriental Bank of Commerce by using Bank Challan Form**, which will be

- generated after filling online application form at university website i.e. www.bfuhs.ac.in. Fee shall not be accepted in any other mode i.e. cash, Cheque, Demand Draft etc.
- v) After filling online application form by candidate, University will issue a Unique Registration Id. Registration id (i.e. Login Id) and password will be provided to the candidate at his/her registered Mobile Number through SMS and email.
 - vi) Admit card will be issued against those Registration Id's, against which Registration Id application fee has been remitted within a stipulated date and time.
 - vii) Candidate should have to apply online on or before 29-04-2015 and with late fee by 04-05-2015. After this online application form will not be available at the University website and no request will be entertained in this regard.
 - viii) **Fee should be deposited by 07-05-2015 by 04:00 pm.** Fee once deposited will not be refunded/adjusted in any case.
 - ix) Date should be filled in the format of dd/mm/yyyy i.e. date/month/year.
 - x) After filling of online application form, applicant will receive a Registration No and Password at his/her given mobile no and E-mail address.
 - xi) Registration No and Password is mandatory for further process, so keep it secret and don't disclose to any unknown person.
 - xii) You have to login to upload Photograph, Edit Application, Application Status and to change your password options.
 - xiii) How to upload Photograph, Signature, Left Thumb Impression: You have to login by entering your Registration No and Password. The size of photograph, Signature, Left hand Thumb impression should not be more than 25KB respectively. Candidate may use third party software i.e. <http://www.shrinkpictures.com> to resize their photograph, Signature, Left hand thumb impression before uploading.
 - xiv) Lock your Application: To get printout of your online application form you have to lock your application. Once you lock your application you will not be able to edit your application data, **so be ensured that you have entered correct data particularly check your Name, date of Birth, categories etc. before locking the application form.**
 - xv) All application forms will be locked automatically, after the cutoff date. Once Application form is locked, it can't be unlocked by applicant.
 - xvi) Candidates are advised to always Log out your application form when you are leaving the computer.

Note: Please fill your valid mobile no. and email address to receive information regarding your application form time to time in the form of SMS and Email. You will also receive your Registration no. and Password on your given mobile no and Email address.

Important: In case candidate wants to make any change in his/her online application form after locking, he/she has to write separate application wherein he/she will clearly describe that what information he/she wants to modify. He will also attach printout of his/her online application form and submit his/her request personally in the University before **16-05-2015 (i.e. one day prior to conduct of PMET-2015)** with correction/editing fee of Rs. 500/- in the shape of Demand draft drawn in favour of Registrar, Baba Farid University of Health Science, Faridkot. **After this date, no request will be entertained for any change in the application form.**

5. Specimen of online application form

Home Important Instructions Important Dates Prospectus

Baba Farid University of Health Sciences Faridkot PMET- 2015
Entrance Test form for MBBS/BDS course Session-2015

Name Father Name

Category 1

Category 2

Category 3

Category 4

DOB (dd/mm/yyyy) Sex

Permanent Address Correspondance Address

Mobile No. Email

10+2 Board Rollno (in numeric figures only)

Developed/maintained by Baba Farid University of Health Sciences IT Cell

6. List of categories and category codes:

Sr. No.	CATEGORY	CATEGORY CODE
1	General Category	11
2	Scheduled Caste	12
3	Backward Classes	13
4	Backward Area	14
5	Border Area	15
6	Orthopaedically Handicapped	16
7	Sports person	17
8	a) Children/Grandchildren of persons killed in terrorist actions in Punjab	18
	b) Children/Grandchildren of persons of terrorist affected/displaced persons	19
	c) Children/Grandchildren of persons killed in Sikh Riots outside Punjab	20
	d) Children/Grandchildren of Sikh riot affected/displaced persons	21
9	Wards of Defence Personnel	
	a) Killed in action	22
	b) Disabled in action to the extent of 50% or above & Boarded out of service	23
	c) Died while in service & Death attributed to Military service	24
	d) Disabled in service & Boarded out with disability attributed to Military Service	25
	e) Gallantry Award/ other Award Winners both serving/ retired.	26
f) Serving Defence personnel/Ex-serviceman	27	
10	Wards of Punjab Police Personnel, Punjab Armed Police, Punjab Home Guards, and Para-Military Forces	
	a) Killed in action	28
	b) Disabled in action to the extent of 50%	29
	c) Winners of President's Police Medal for Gallantry or Police Medal for Gallantry	30
11	Children/ grandchildren of freedom fighters	31
12	Migrants from Jammu & Kashmir due to terrorist Violence	32
13	NRI	33

7. ADMIT CARD:

The University will provide the facility of downloading Admit Cards of **PMET – 2015**, along with a certificate which would be **dully signed and attested from either Principal of last attended School/Executive Magistrate**. Candidates are required to download the admit cards from the website and follow the instructions given therein. Candidate may please note that **admit cards will not be sent by the post**. The admit cards will be available on University website from **11/05/2015**. **Candidate must not mutilate the Admit Card or change any entry made therein. Candidates are advised to preserve their Admit Cards in good condition till admission in Medical/Dental Colleges is over.**

Note: Admit card will be issued only to those candidates whose admission fee has been received. In case any candidate has deposited fee and his/her admit card is not downloaded then he/she has to contact to the University personally on 14-05-2015 with University copy of Bank Challan Form.

8. SCHEME FOR PMET - 2015:

a) DATE OF TEST:

The Test will be conducted on **17th May, 2015 (Sunday) Timing 11:00 am to 2:00 pm.**

b) SCHEME OF TEST

The Test shall have one paper consisting of questions in Physics, Chemistry and Biology (Botany and Zoology). The duration of test will be three hours from 11.00 a.m. to 2.00 p.m. which includes the time consumed in signatures, thumb impressions, photography and other security measures

There will be 200 Multiple Choice Questions (50 each of Physics, Chemistry, Botany and Zoology). Each question will carry four marks, thus total marks will be 800.

The questions will be in English. The candidate will be required to find out the correct answer and mark it on the **Optical Mark Reader (OMR) Response Sheet** by darkening the corresponding oval against the serial number of the question with **BLACK FINE TIP BALL PEN ONLY provided by the university at the time of test**. A sample OMR Response sheet is at [Annexure VII](#).

c) SYLLABUS: The syllabus for PMET-2015 is given at Annexure-I of this Prospectus.

d) Centres for the conduct of PMET-2015:

The test shall be conducted at the centers decided by the University However, the city/cities, centre/centres for the candidates shall be intimated by the University through Press/University website.

7. CONDUCT OF THE TEST

1. The test will be conducted at various centres in the cities. The exact name of the Cities, Institutions, Schools or Colleges will be informed by the University to the candidates.
2. The test will be conducted on **17th May, 2015(Sunday)** from 11.00 a.m. to 2.00 p.m.
3. Candidates are required to reach the Test Centre at least 30 minutes before the start of test. If the candidates do not report in time they are likely to miss some of the general instructions to be announced in the examination hall.
4. The candidates must show, on demand, the Admit Card for entry in the examination hall. A candidate who does not bring the Admit Card issued by the Baba Farid University of Health Sciences, Faridkot, will not be admitted to the examination hall under any circumstances by the Centre Superintendent. **All candidates and invigilators shall be videographed at the examination centres**
5. A seat with the Roll Number will be allotted to each candidate.

6. Candidates must find out and occupy their allotted seats after consulting the seating plan displayed at Examination Centre.
7. A candidate who comes after 5 minutes of the commencement of the Test shall not be permitted to take the test.
8. A candidate shall not be allowed to carry any textual material, printed or written, bits of papers or any other material except the Admit Card inside the Examination Hall.
9. Calculators, Slide Rules, Log Tables, Electronic Watches with facilities of calculators, cellular phones, pagers or any other electronic devices the use/misuse of which would be adverse to the proper conduct of this Test shall not be allowed inside the Examination Hall. Any candidate in possession of these may be expelled from this Test.
10. No candidate shall be allowed to go outside the Examination Hall till the completion of the entire duration of time i.e. before 2.00 p.m.
11. No candidate, without the special permission of the Centre Superintendent or the Invigilator concerned, will leave his/her seat or the Examination Room until the expiry of full time allotted for test. Candidates should not leave the Hall without handing over their Question Booklets and the OMR Response Sheets to the invigilator on duty.
12. Candidates are advised to bring with them a card board or a clip board on which nothing should be written so that they have no difficulty in marking responses on the OMR Response Sheet even if the tables provided in the Examination hall do not have smooth surface.
13. Smoking in the Examination hall during examination is strictly prohibited.
14. Tea, coffee, cold drinks, snacks, toffees, chocolates etc. are not allowed to be taken into the examination rooms during the examination
15. Use of Electronic/Manual Calculator is strictly prohibited.
16. Mobile phones or electronic devices of any kind are not allowed to be taken in. Violation may lead to cancellation of candidature of violates.
17. Candidates shall maintain perfect silence and attend to their papers only. Conversation, gesticulation or disturbance in the Examination Hall shall be deemed as a violation.
18. If a candidate is found using unfair means or impersonating, then his/her candidature will be cancelled and he/she will be liable to be debarred for taking examination either permanently or for a specified period according to the nature of offence. Decision of the University shall be final and binding in this regard. However candidates who try to send impersonators shall be barred permanently.
19. In the OMR Response Sheet there would be five ovals against every question marked as A, B, C, D and E. The candidate shall shade one of the four ovals corresponding to the correct response to a question using **BLACK FINE TIP BALL PEN provided by the university only. If a candidate is unable to answer a question, he/she should shade the fifth oval i.e. Option- E.** There will be no negative marking for wrong answers. However, for security reasons fifth oval has been introduced. **In all un-attempted questions fifth oval must be darkened otherwise if all ovals are left blank then that question shall carry one negative mark.** Hence it is in the interest of the candidate not leave all ovals blank in any question and one oval has to be shaded out of the five
20. Candidates are advised not to write anything on any place which is not specifically provided for this purpose.
21. The sheet at the end of the question booklet can be used for rough work. Rough work can also be carried out on the margin of Question Booklet.
22. The candidates will start the question paper at 11.00 a.m. which will be announced by the invigilator.

23. Candidates must read the instructions given on the Question Booklet and OMR Response Sheet before attempting to answer the questions.
24. During the course of the Test, Invigilator will approach each candidate to get his/her attendance marked on the Attendance Sheet and also get thumb impression of the candidate. Male candidates shall affix their Left Thumb Impression and female candidate shall affix their Right Thumb Impression at the space provided on Attendance Sheet and OMR Response sheet and the Roll No. Counter slip sheet for records.
25. The candidate shall be required to fill the Question Booklet No. and OMR Response Sheet number on the Attendance Sheet. **The Invigilator shall also sign at the appropriate places on the Question Booklet, OMR Response Sheet and Attendance Sheet and on the Roll Number counter slip sheet.**
26. **Candidate must fill the Question Booklet number, OMR Response Sheet No. and Question Booklet Set very carefully.**
27. The candidate is required to hand over both question booklet and OMR Response Sheet to the Centre Superintendent even if they have not attempted any question and no page/part of the question booklet and OMR Response Sheet is to be torn or removed or taken out of the Examination Centre under any circumstances failing which the candidature shall be cancelled.
28. No candidate shall be allowed to leave the examination hall/ room before the expiry of the time i.e. not before 2.00 p.m.
29. The Centre Superintendent/Observer/other authorized University officer / official shall be competent to expel a candidate from the examination centre.
30. **There shall be other measures which shall be announced at the centre**

8. GENERAL INSTRUCTIONS FOR THE CANDIDATES

1. No enquiries with regards to the date of declaration of result shall be entertained by the University or Government.
2. No re-examination shall be held by the University under any circumstances, for those candidates who are unable to appear on the scheduled date of PMET-2015 for any reason whatsoever.

9. MODE OF THE TEST

- a) The examination shall be only one paper consisting of Physics, Chemistry and Biology (Botany & Zoology). There will be 200 questions in all 50 on Physics, 50 on Chemistry, and 100 on Biology (50 each on Botany & Zoology).
- b) The paper shall be of 3 hours duration and shall carry 800 marks.
- c) The test will be of objective type with multiple choice questions and candidates will be provided with a sealed Question Booklet and an OMR Response Sheet. In the Test/Question Booklet, there will be 200 items (questions) serially numbered from 1 to 200. Each item will be followed by four responses marked (A), (B), (C) and (D). Of these four responses only one will be the correct or the most appropriate response.
- d) The candidate will write with **BLACK FINE TIP BALL PEN**, the required information regarding: Roll Number, Name, Question Booklet No., Question Booklet Set etc. on the Test/Question Booklet before opening the seal.
- e) Candidate must write the **Sr. No. and Set of the Question Booklet carefully on the OMR Response sheet** and the OMR Response sheet number on the question booklet and Both the OMR Response sheet number & the Question Booklet No. on the roll number counter slip sheet and the attendance sheet.

10. PROCEDURE TO BE FOLLOWED IN THE EXAMINATION HALL

1. Ten minutes before the commencement of the Test, each candidate will be given sealed Question Booklet and an OMR Response Sheet.
2. Immediately on receipt of the Question Booklet the candidates will fill in the required particulars on the cover page of the Question Booklet and column 1 to 4 of Side-I of the OMR Response Sheet with **BLACK FINE TIP BALL PEN** only. He/She will not open the Seal of Question Booklet until asked to do so by the invigilator.
3. **Immediately after opening the Question Booklet the candidate should check it thoroughly and inform the invigilator within 10 minutes regarding any discrepancy/ies found in Question Booklet. After 10 minute any claim regarding this may not be entertained**
4. The test will start exactly at the time mentioned in the Admit Card and an announcement to this effect will be made by the invigilator.
5. During the examination time, the invigilator will check Admit Card of the candidates to verify the identity of each candidate. The invigilator will also put his/her signatures in the place provided on Side-I of the OMR Response Sheet.
6. After completing the test and before handing over the Question Booklet and the OMR Response Sheet, the candidate should check again that all the particulars required in the Question Booklet and the OMR Response Sheet have been correctly written or filled. Ensure that the Roll No. and the Question Booklet Series are correctly written and coded in the OMR Response Sheet.
7. A signal will be given at the beginning of the examination and at half-time. A signal will also be given before the closing time when the candidate must stop marking the response.

11. THE OMR RESPONSE SHEET

1. OMR Response Sheets will be distributed along with the Question Booklet.
2. A specimen copy of the **OMR Response Sheet** to be used for answering questions is given at **Annexure-VII** of this Prospectus. Candidates are advised to go through it and be conversant with the requirement of giving particulars and marking the responses so that during the examination they could do so without any difficulty and/or without making any mistake thereby avoid loss of time.
3. OMR Response Sheet can be filled only with **BLACK FINE TIP BALL PEN**.
4. The OMR Response Sheet will be scanned by an Optical Scanner. There will be two sides of the OMR Response Sheet i.e. Side-I and Side-II.
 - a) **Side-I** of the OMR answer sheet contains the following columns, which are to be filled up neatly and accurately with a **BLACK FINE TIP BALL PEN**:-
 1. Name
 2. Roll No.
 3. Question Booklet Number
 4. Signature of candidate
 - b) **Side-II** of the OMR answer sheet contains the following columns, which are to be filled up neatly and accurately with a **BLACK FINE TIP BALL PEN**:-
 1. Roll No.
 2. Question Booklet Number

3. Columns 1 to 200 (i.e. responses to questions in Question Booklet). Each column corresponds to the serial number of question given in the Question Booklet. With each column there are five ovals out of which four correspond to the four responses one of which is correct or most appropriate. **The fifth one is for un-attempted question i.e. Option E**

NOTE: Please use **BLACK FINE TIP BALL PENS** only for writing/coding particulars on the OMR Response Sheet. Use of any other writing instrument shall invalidate the OMR Response Sheet.

The candidate must ensure that the OMR Response Sheet is not folded, soiled or mutilated. No stray marks should be put on OMR Response Sheet.

11 PEN

Please note that only **BLACK FINE TIP BALL PEN provided by the university at the time of test** will be used in the test. In case pencil or any pen other than **BLACK FINE TIP BALL PEN** is used, the OMR Response Sheet may be rejected by the Optical Scanner and such a response sheet will be invalidated.

12 CAUTION WHILE MARKING AN ANSWER

- i) If more than one oval is darkened such a response shall be treated wrong.
- ii) The candidate is advised to decide about the answer before it is marked on the OMR Response Sheet. He/ She must ensure that appropriate oval is completely darkened with **BLACK FINE TIP BALL PEN** only. A lightly/partially/faintly darkened oval will be treated as a wrong method of marking and will be rejected by the Optical Scanner.
- iii) Use **BLACK FINE TIP BALL PEN** only to darken the appropriate oval.
- iv) The oval should be so darkened that it is completely filled.
- v) Darken only one oval for each entry.
- vi) Make the marks only at the space provided.
- vii) Please do not fold the OMR Response Sheet or make any stray marks on it.
- viii) **In un-attempted questions 5th oval i.e. option - E must be darkened otherwise all blank ovals in a question shall lead to negative marking.**

13 NEGATIVE MARKING

There will be no negative marking for wrong answers. However, for security reasons **fifth oval (i.e. E)** has been introduced. In all un-attempted questions fifth oval must be darkened otherwise if all ovals are left blank then that question shall carry one negative mark. Hence it is in the interest of the candidate not to leave all ovals blank in any question and one oval has to be shaded out of the five.

14. ROUGH WORK

The candidate will not do any rough work or writing work on the OMR Response Sheet. All rough work is to be done on the margin of Question Booklet or on the space available on this question booklet.

15. CAUTION FOR REMOVAL OF PAGE(S) FROM QUESTION BOOKLET

The candidate will check and ensure that the Question Booklet contains number of pages as are written on the top of the first page. The candidate shall not remove any page(s) from the Test-Booklet and if any page(s) is/are found missing from his/her Booklet, then his/her candidature will be cancelled and a criminal case may be got registered against him/her. In case a candidate finds that there are blank or duplicate or unreadable page(s) in his/her booklet then this fact shall be brought to the notice of the invigilator on duty who shall supply a fresh Question Booklet of the same set to the candidate. The candidate shall not fill the Serial No. of fresh Booklet in the OMR Response Sheet as this fact will be reflected in the report of the Centre Superintendent to the University.

16. UNFAIRMEANS PRACTICE & BREACHES OF EXAMINATION RULES:

- A. Unfair means practice is an activity that allows a candidate to gain an unfair advantage over other candidates. It includes, but not limited to:**
- I. Having in possession papers, books, notes, electronic devices or any other material or information relevant to the examination in the paper concerned;
 - II. Paying someone to write examination (impersonation) or prepare material;
 - III. Breaching examination rules;
 - IV. Assisting another candidate to engage in malpractice; -giving or receiving assistance directly or indirectly of any kind or attempting to do so;
 - V. Writing questions or answers on any material other than the answer sheet given by the Centre Superintendent for writing answers;
 - VI. Tearing of Answer Sheet, any page of the test booklet, etc.;
 - VII. Contacting or communicating or trying to do so with any person, other than the Examination Staff, during the examination time in the examination centre;
 - VIII. Taking away the answer sheet out of the examination hall/room;
 - IX. Smuggling out Question Paper or its part or smuggling out answer sheet or part thereof;
 - X. Threatening any of the officials connected with the conduct of the examination or threatening any of the candidates;
 - XI. Using or attempting to use any other undesirable method or means in connection with the examination.
 - XII. Manipulation & fabrication in online documents viz. admit card, rank letter, etc.
 - XIII. Forceful entry in Examination Hall with mala fide intentions.
 - XIV. Affixing of fabricated photograph on the application form.

B PUNISHMENT FOR USING UNFAIRMEANS PRACTICE

During the course of examination, before or later on, if a candidate is found indulged in any of the above or similar practices, shall be deemed to have used unfair practices at examination and marked as UNFAIRMEANS (U.F.M.). **Such candidates would be debarred from taking this examination permanently in future and shall also be liable for criminal action and /or any other action as deem fit by the University.**

- C** Candidates should ensure before leaving the Examination Hall that they have handed over the Answer Sheet and Question paper to the invigilators on duty and that they have signed on the Attendance Sheet second time. In case the candidate does not hand over the Answer Sheet & Question paper and takes away the same with him/ her, this shall amount to use of unfair means practices and accordingly his/her case shall be dealt with.

- D** The candidate will check and ensure that the Test-Booklet contain as many number of pages as are written on the top of the cover page.

17 INFORMATION FOR PARENTS/GUARDIANS

- (1) Parents/Guardians are advised to ensure that their ward should not indulge in unfairmeans activities/malpractices which breach the examination rules. If any candidate is found to be indulged in any such activity he/she shall be debarred from taking this examination permanently in future and shall also be liable for criminal action and/or any other action deem fit by the University.
- (2) **The conduct of PMET Examination would be video graphed. The candidates are required to keep their head in upright position and face the camera during the videography so that their identity could be clearly established.**
- (3) **It is mandatory for the candidate to bring his/her Admit card along with duly attested/signed certificate by the Principal/Executive magistrate for appear in PMET Examination. Candidate must submit the counter part to the invigilator staff in the examination centre.**
- (4) In addition to (3) above, it is mandatory for the candidate to bring an additional passport size photograph for pasting it on the specific space in the attendance sheet.

18. **DECLARATION OF RESULT**

1. After, all the Question Booklets and OMR Response Sheets are received by the University the evaluation shall be done using OMR machine.
2. After evaluation, result shall be declared Rank-wise, Roll No. wise and category wise. The Ranking shall be solely based on the result of PMET-2015 and shall not be valid for admission. This Ranking will be drawn to give an approximate idea to the candidate with regard to his/her relative position only based on PMET-2015.
3. The result will be available on University website www.bfuhs.ac.in
4. The result so declared and Ranking so drawn shall be made known to each candidate by an official gazette, copies of which shall be available at the office of the University at Faridkot and University's web site www.bfuhs.ac.in
5. The gazette of the result will be available in the office of the University at Faridkot.

19. **RESULT CARD:**

CANDIDATES CAN ACCESS/DOWNLOAD THEIR RESULT CARD FROM THE UNIVERSITY WEBSITE i.e. www.bfuhs.ac.in from any internet source by following the instructions given below:

Directions for accessing/downloading RESULT CARD:

- a) Access University website www.bfuhs.ac.in
- b) Click on PMET-2015 RESULT.
- c) Click on INDIVIDUAL'S RESULT.
- d) Enter individual Roll No.
- e) Download/print individual result card.

20. **Rechecking of OMR Response Sheet**

There is provision of re-checking of the OMR response sheet, if demanded by the candidate/guardian of the candidate. In this regard, application will be submitted on plain paper, to the University within 7 days after declaration of result. Rechecking fee is Rs. 5000/- to be paid in the form of Demand Draft favouring Registrar, Baba Farid University of Health Sciences, payable at Faridkot.

21. **MERIT LIST**

The University will prepare a list of the applicants for admission out of the successful candidates in the order of merit based on the PMET-2015 Rank and the provisions of the Punjab Government Notification **No. 5/35/2014-5HB-III/559 dated 30/03/2015 as amended from time to time and subsequent notifications in this regard** for the purpose of allotment of seats in the different courses/institutions by personal appearance of the candidates before Selection Committee.

22. **ONLINE ADMISSION APPLICATION FORM AND PREFERENCE OF COLLEGES/COURSE FORM**

Candidates will fill online admission application cum choice filling form after declaration of PMET – 2015 result available at University website, within due date & time and get atleast 2 copies of Printout of filled online Admission application form. Seat/college will be allocated as per the merit cum choice/preference filled by the candidate. Candidates are required to submit one copy to the allocated college alongwith all requisite self attested documents.

PART-II

1. INTRODUCTION: Part-B pertains to admission to MBBS and BDS courses on the basis of merit of PMET-2015. This part contains Punjab Government Notification No. 5/35/2014-5HB-III/559 dated 30/03/2015.

2. NRI SEATS: Applications for these seats in government, university and private colleges shall have to be sent to the University after PMET – 2015 and obtain the eligibility certificate from the university.

The final status of the colleges/seats shall be displayed at the time of counselling.

Notwithstanding candidate's participation in PMET-2015, only those candidates who are eligible as per the Prospectus, University Rules and the Punjab Govt. Notification No. 5/35/2014-5HB-III/559 dated 30.03.2015 and apply for admission shall be considered for admission.

**GOVERNMENT OF PUNJAB
DEPARTMENT OF MEDICAL EDUCATION & RESEARCH
(HEALTH-III BRANCH)**

NOTIFICATION

No. 5/35/2014-5HB-III/ 539.

Dated: 30/03/2015.

SUBJECT: ADMISSION TO MBBS / BDS COURSES- IN MEDICAL AND DENTAL INSTITUTES IN THE STATE OF PUNJAB FOR THE SESSION 2015.

1. The Governor of Punjab is pleased to notify the admissions to Under-Graduate Degree courses i.e. MBBS/BDS for the year 2015 in the Medical/Dental Institutes in the State of Punjab including Medical /Dental Institutes affiliated to Private Universities.
2. The Governor of Punjab is further pleased to authorize Baba Farid University of Health Sciences, Faridkot to conduct Punjab Medical Entrance Test-2015 (PMET-2015) .
3. The Governor of Punjab is further pleased to authorize Baba Farid University of Health Sciences, Faridkot to conduct centralized counselling for admissions on the basis of marks obtained in PMET-2015.
4. The admission to the MBBS/BDS courses in all the categories will be based on marks obtained in PMET-2015. However if the seats are still vacant then admissions will be done on the basis of marks obtained in 10+2 (qualifying exam).
5. Candidate must have completed the age of 17 years on or before 31st December of the admission year.
6. Candidate must have passed in the subjects of Physics, Chemistry, Biology/Biotechnology and English individually and must have obtained a minimum of 50% marks (45% for Persons with Locomotor Disability of Lower Limbs and 40% for SC/BC) taken together in Physics, Chemistry and Biology/ Biotechnology (PCB) in 10+2 examination or other equivalent examination of 10+2.
7. **Candidate should have passed qualifying examination as under:**
 - a. The higher secondary examination or the Indian School Certificate Examination which is equivalent to 10+2 Higher Secondary Examination after a period of 12 years study, the last two years of study comprising of Physics, Chemistry and Biology after the introduction of the 10+2+3 years education structure as recommended by the National Committee of Education;
 - OR
 - b. Any other examination which, in scope and standard is found to be equivalent to the Intermediate Science examination of an Indian University/Board, taking Physics, Chemistry and Biology/

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Biotechnology including a practical test in each of these subjects and English;

8. In order to be eligible for admission to MBBS/BDS course, it shall be necessary for the candidate to obtain minimum of 50% marks (45% for Persons with Locomotor Disability of Lower Limbs and 40% for SC/BC categories) in PMET-2015.
The inter-se-merit of candidates for tie-breaking in PMET-2015 shall be determined in the following manner:
 - a. Candidates obtaining higher marks in Biology (Botany & Zoology) in the PMET-2015.
 - b. Candidates obtaining higher marks in Chemistry in the PMET-2015.
 - c. Candidates older in age.
9. After the declaration of the PMET-2015 result, the candidates will apply on the specific proforma for all seats except All India quota seats to Baba Farid University of Health Sciences, (BFUHS), Faridkot. Admission will be made by the selection committee through a centralized counselling by BFUHS, Faridkot on the basis of inter-se merit of PMET-2015. However if the seats are still vacant then admissions will be done on the basis of marks obtained in 10+2 (qualifying exam). Merit will be prepared on the basis of PCB (Physics, Chemistry and Biology/Biotechnology) marks in 10+2 examination. In case two or more candidates securing equal marks in PCB, their inter-se merit will be determined as under:
 - i) Candidates having higher percentage in the subject of Biology/Biotechnology
 - ii) Candidate having higher percentage in the subject of chemistry
 - iii) Candidate, older in age.
10. Admission to private institutions shall be made as per the provisions of the Punjab Private Health Sciences Educational Institutions (Regulation of Admission, Fixation of Fee & Making of Reservations) Act 2006.
11. A candidate from reserved Category shall have the right to compete for admission in open merit or General category seats as per his/her merit on the day of counselling and candidate so selected will not be counted towards admission in the reserve category.
12. The schedule of counselling, admission and start of classes shall be in conformity with the schedule laid down by Medical Council of India/Dental Council of India/ Hon'ble Supreme Court of India / State Government. Fee and other charges for submission of the application and counselling shall be determined by the University.
13. Out of the total seats in government institutes, 15% seats (All India Quota) in MBBS/BDS courses shall be filled by the Government of India through centralized counselling by Central Board of Secondary Examination on the

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basis of marks obtained in AIPMT-2015. (Rest 85% seats will be filled by the selection committee constituted by the Government of Punjab).

14. The details of the institutions and category wise seats will be available on the official website of Government of Punjab and Baba Farid University of Health Sciences, Faridkot i.e. www.punjabmedicaleducation.org and www.bfuhs.ac.in.
15. The candidate should be a bonafide resident of Punjab. The resident status of Punjab state will be taken in terms of Punjab Government, Department of Personnel and Administrative reforms (PP-II Branch) letter No. 1/3/95-3 PP II/9619, dated 6th June, 1996, ID No. 1/2/96-3PP-2/8976, dated 7th July, 1998 and ID No. 1/3/95-3PP/II/81, dated 1st January 1999 and any further instructions issued by the Department of Personnel, if any, and the same shall be adhered. This is applicable on all MBBS /BDS candidates except 15% All India Quota, NRI seats and wards of defence personnel posted in Punjab.

Provided however, that in case adequate number of candidates aren't available for BDS course, candidates who are not residents of Punjab shall also be considered.

16. A Candidate should belong to Punjab and should have passed his/her 10+2 examination or other equivalent examination in place of 10+2 examination from a recognized School/ institution situated in the State of Punjab*except for the following exemptions wherever applicable. The candidate would be required to submit a certificate to this effect from the Principal/Head of the Institute last attended in the prescribed proforma. The following categories will be exempted from this condition
 - i) Children/wards/dependents (whose parents are not alive) of all those regular Punjab Government employees, members of All India Services born on Punjab cadre, Serving Judges and the employees of the Punjab and Haryana High Court, employees of Boards/Corporations/Statutory Bodies established by an act of the State of Punjab who have been holding post outside Punjab on or before 1st January of the year of **passing 10+2 examination** and their children/wards/dependants were compelled to do class XII outside Punjab.
 - ii) Children/wards/dependents (whose parents are not alive) of all those regular Central Government employees, employees of Boards/Corporations/Statutory Bodies of the Central Government who have remained posted inside Punjab for at least two years out of the three years preceding year of **passing 10+2 examination** but were posted outside Punjab for some time during these three years due to which their children/wards/dependants were compelled to do class XI and/or XII or equivalent qualifying examination outside Punjab. However

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- those who remained posted in Punjab continuously for these three years shall not be entitled to be exempted as they are equally placed with other Punjab Government employees posted in Punjab.
- iii) Children/wards/dependents (whose parents are not alive) of all those Punjab Government pensioners who have retired on or before 1st January of the year of passing 10+2 examination and have settled outside Punjab on or before 1st January of the year of passing 10+2 examination and their children/wards/dependants were compelled to do class XII outside Punjab.
 - iv) Children/wards/dependents (whose parents are not alive) of those military/ para-military forces personnel who were born in the territory of Punjab as per their service record at the time of entry into service.
 - v) Children/wards/dependents (whose parents are not alive) of those Ex-employees of military/ Para military forces who were born in the territory of Punjab as per their service record at the time of entry into the service and have retired on or after 1st January of the year preceding two years of the year of passing 10+2 examination.
 - vi) Candidates belonging to minority community who are competing for the minority quota in the minority institutions.
 - vii) Candidates seeking admission under NRI category.
 - viii) Wards of defense personnel posted in Punjab.

***Note I:** A candidate who passed his/her 10+2 examinations or other equivalent examination from a recognized School/Institution situated in Chandigarh Union Territory shall also be eligible for admission to MBBS/BDS provided these candidates are Punjab bonafide residents.

Note II: Result not declared - The candidate, whose result of qualifying examination is not declared till the last date of applying, will have to produce the result of qualifying examination by the time of counseling. Marks obtained in Mathematics in Class XII examination shall not be considered for admission to MBBS/BDS courses.

17. SELECTION COMMITTEES

Counseling will be online, the details will be decided by the Baba Farid University of Health Sciences, (BFUHS), Faridkot.
The following committees are constituted for holding counseling and finalizing the admissions:

A. For Government and Private Institutes For MBBS Course:

1)	Principal, Government Medical College, Amritsar.	Chairman
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2)	Principals of Government Medical College, Patiala, Guru Gobind Singh Medical College Faridkot, Dayanand Medical College Ludhiana, S.G.R.D. Institute Medical Education & Research, Vallah, Amritsar; Gian Sagar Medical & Hospital, Vill: Ram Nagar, Banur, Distt Patiala; Punjab Institute of Medical Sciences, Garha Road, Jalandhar; Chintpurni Medical College & Hospital, DharanKalan, Distt. Gurdaspur.	Members
3)	Registrar / Joint Registrar / Deputy Registrar of Baba Farid University of Health Sciences, Faridkot	Member
4)	Representative of welfare Department.	Member

For BDS Course:

1)	Principal, Government Dental College, Amritsar.	Chairman
2)	Principals of Government Dental College Patiala, S.G.R.D. Institute of Dental Sciences & Research, Vallah, Amritsar; Baba Jaswant Singh Dental College Hospital and Research Institute, Urban Estate, Ludhiana; Guru Nanak Dev Dental College & Research Institute, Sunam; Desh Bhagat Dental College & Hospital, Mukatsar; National Dental College, Gulabgarh, DeraBassi, Distt Patiala; LuxmiBai Institute of Dental Sciences & Hospital VPO Baran, Distt Patiala; Genesis Institute of Dental Sciences & Research, Moga Road, Ferozepur; Gian Sagar Dental College, Vill: Ram Nagar, Banur, Distt Patiala; Rayat-Bahra Dental College, Village Sahauran, Distt. Mohali; Sri Sukhmani Dental College & Hospital, Dera Bassi, Distt: Mohali.	Members
3)	Registrar / Joint Registrar / Deputy Registrar of Baba Farid University of Health Sciences, Faridkot	Member
4)	Representative of welfare Department.	Member

B. For seats left over after Central Counseling in Government/Management/Minority quota seats in private Institutes including minority institutions.

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|---|----------|
| a. Principal of the Dayanand Medical College, Ludhiana | Chairman |
| b. Representative of Government. | Member |
| c. Registrar/Joint Registrar/Deputy Registrar of Baba Farid University of Health Sciences, Faridkot | Member |
| d. Representative of welfare Department. | Member |

18. APPELLATE AUTHORITY:-

Director, Research and Medical Education, Punjab, Education Bhawan, 7th Floor, E-Block, Sector 62, SAS Nagar, Mohali, Punjab will be the appellate authority in case of any dispute.

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19. FEE *

Fee will be notified by the Punjab Government for Government Medical/Dental College, Amritsar, Government Medical/Dental College, Patiala and Private Medical/Dental Colleges of state of Punjab.

- i) The fee will be payable on annual basis and the institutes shall not insist on the candidate to deposit fee of the entire course in advance. At the most candidates can be asked to furnish a surety bond / bank guarantee that they will be liable to pay the balance fee for the whole course even if they leave the institute / course midway course.
- ii) The fee shall be refunded / adjusted if candidate is shifted from one college to another in the subsequent counseling on operation of the waiting list. If the said fee is not refunded / adjusted within 15 days, the said Institution is liable to pay Bank Interest as well as penal interest to the said students as laid by R.B.I. Fee will be deposited by the successful candidates to the respective institute in the shape of demand draft.
- iii) Hostel fee and security advance (Annual and provisional) for private institutes.
 - a. General Independent Room Rs.16,500/- per year for the First year (Maximum) for single bedroom .This fee may be hiked upto 10% (maximum) for each subsequent year

- b. Special Room (Attached bathroom and AC) Rs.26,400/-per year (Maximum). This fee may be hiked upto 10% (maximum) for each subsequent year
- c. Security Advance Rs.27,500/-or its equivalent (refundable in the shape of demand draft.)
- d. Mess charges- Actual and to be managed by the students.
- e. These charges are exclusive of electricity / water but inclusive of everything else.

*The fee and other charges/ security etc. to be charged shall be subject to change as may be approved by the State Government from time to time.

20. Reservation

A. For Government Medical/Dental Colleges :

Out of the total seats, 15% seats (All India Quota) in MBBS/BDS courses would be filled by Govt. of India through centralized counseling by CBSE on the basis of merit in AIPMT-2015.

The reservation for the State quota seats in Government Institutes in various categories for admission to the under Graduate courses in Government Medical Institutes will be as under:

- | | | |
|-----|-----------------|-----|
| (i) | Scheduled Caste | 25% |
|-----|-----------------|-----|

Note: The reservation for SC shall be calculated on total seats of institution after deduction of All India Quota seats .

- | | | |
|------|------------------|----|
| (ii) | Backward Classes | 5% |
|------|------------------|----|

Note: The Backward Class Certificate must be as per the latest instructions of the Government of Punjab in which the annual income of the family is specifically certified

- | | | |
|-------|---|----|
| (iii) | Backward Area/ Border Area (1% each) | 2% |
| (iv) | Physically handicapped/ orthopedically handicapped only | |

3%

The candidate under orthopedic handicap shall be admitted only if he/ she has locomotors disability of lower limbs between 50% to 70% and with this disability he/she is otherwise found fit medically to pursue the concerned course by the Medical Board duly constituted by the Government and consisting of Heads of the respective Departments of three Medical Colleges at Patiala, Amritsar and Faridkot of the specialty concerned. In case the candidates are not available then candidates with 40% to 50% disability may be considered.

- | | | |
|-----|----------------|----|
| (v) | Sports Persons | 1% |
|-----|----------------|----|

Credit will be given only for the sports achievements made during class XI and XII. The admission shall be made on the basis of inter-se merit of the candidates determined on the basis of gradation (Cat A/B/C) issued by the Director of Sports, Punjab.

- (vi) Children/Grandchildren of terrorist affected persons 1%
 Children/Grandchildren of Sikh riot affected persons 1%
 (In order of preference to the exclusion of next category) (Preference will be given to a candidate whose parent or guardian is killed in such situation - Guardian to be considered only in case neither parent was alive at the relevant time)
- a. Persons killed in terrorist actions in Punjab/ riots outside Punjab.
 b. Terrorist/ Riot affected /displaced persons
- (vii) Wards of Defence Personnel 1%
 (In order of preference to the exclusion of next category)
- (a) Killed in action
 (b) Disabled in action to the extent of 50% or above & Boarded out of service
 (c) Died while in service & Death attributed to Military service
 (d) Disabled in service & boarded out with disability attributed to Military Service
 (e) Gallantry award/other award winners both serving/retired.
 (f) Serving defence personnel/ex-serviceman
- (viii) Wards of Punjab Police Personnel, Punjab Armed Police, Punjab Home Guards, and Para-Military Forces (in order of preference to the exclusion of next category) 1%.
- Certificate to this effect issued by Inspector General Police (HQ), Punjab shall have to be produced while submitting other documents. In case of Paramilitary Forces this certificate shall be countersigned by IG Police (HQ) Punjab.
- (a) Killed in action
 (b) Disabled in action to the extent of 50%
 (c) Winners of President's Police Medal for Gallantry or Police Medal for Gallantry
- (ix) Children/grandchildren of freedom fighters of Punjab 1%

21. Admission to Private Institutes

- i) The distribution of seats in private medical institutions would be:
- | | |
|---------------------------------|-------------------------------|
| Government quota seats | 50% |
| Management/Minority quota seats | 50% (including 15% NRI quota) |

2/1/15

3/1/15

Note: regarding minority seats in the S.G.P.C. institutions namely Sri Guru Ram Dass Institute of Medical Sciences and Research and Sri Guru Ram Dass Institute of Dental Sciences and Research, Amritsar, the NRI seats be divided equally between the Government quota and Minority Quota as per Government Notification No. 5/19/2004-5HB-III/424 dated 07.02.2005.

ii) The reservation in private institutes (for Government/Management quota seats) will be as under:

- | | | |
|-----|------------------|-----|
| i) | Scheduled Caste | 25% |
| ii) | Backward Classes | 5% |

Note: The Backward Class Certificate must be as per the latest instructions of the Government of Punjab in which the annual income of the family is specifically certified)

- | | | |
|------|--|----|
| iii) | Physically handicapped/orthopedically handicapped | 3% |
| iv) | Migrants from Jammu & Kashmir due to terrorist violence. | 1% |

iii) The vacancy, if any, generated due to exceptional circumstances or surrender of seats after the 2nd centralized counselling would be filled by the admission committee headed by the Principal of Dayanand Medical College and comprising of the representative each of the Government and the University, strictly on the basis of merit of the corresponding year. This counseling will be held at GGS Medical College Faridkot.

iv) The minority quota seats shall be filled on the basis of inter se merit of the candidates in the test conducted by the minority institute, or on the basis of marks obtained in PMET-2015. The institutions will also upload the admission form on institute website.

v) The representative of the University would be at liberty to place on record the copies of applications received in the BFUHS directly for admission to the institutes, for consideration by the Committee.

22. Procedure for filling left over seats in private/ minority institutes

For all the leftover seats in Private or Government Medical/Dental Colleges the counseling will be held at GGS Medical College Faridkot with the same merit as that of PMET-2015 or inter se merit on the basis of qualifying exam. No fresh applications will be called by individual institutions.

23. Non Resident Indian (NRI) SEATS

15% seats in all private Institutes/University College and 13 seats each in Govt. Medical College, Patiala and Amritsar and 3 seats in Govt. Dental College, Amritsar and 4 seats in Govt. Dental College, Patiala shall be earmarked for the Non Resident Indians in the following order:

Category I: NRI's/Children of NRI's who originally belong to the State of Punjab.

Category II: NRI's/Children of NRI's who originally belong to an Indian State other than Punjab.

- (i) A person who originally belongs to India and holds Foreign Country Passport or Green Card or Permanent Resident Card or Proof of Residency of Foreign country issued by competent authority shall be considered under NRI quota.
- (ii) The eligibility of the candidates will be determined by the Baba Farid University of Health Sciences, Faridkot, who will issue an eligibility certificate to each such candidate.
- (iii) Seats under NRI quota would be firstly filled by Category-I candidates. In case seats remain vacant only then Candidates of Category-II would be considered. In other words if sufficient number of candidates under Category-I are eligible and available then they will be admitted first even if students under subsequent category i.e. category- II are higher in merit.
- (iv) The fee notified for NRI category will be applicable to NRI candidates getting admission to Government Medical/Dental colleges also.
- (v) The NRI students will have to give a bank guarantee/surety bond for the balance of fee, if they opt to pay the fee in installments as provided.
- (vi) The centralized counseling of NRI quota seats will be held before the counseling for other categories. In case of any seat remaining vacant under NRI quota, during / after 2nd centralized counselling of NRI quota in state colleges, shall go to General category and in the unaided-private colleges/minority colleges shall go to General Category of the management/minority quota. The NRI left over seats converted into Government quota/ Management/ Minority quota will be filled by the Counselling Committee from amongst the eligible Candidates.

24. Declaration to be submitted by the candidate

The Candidate and his parent / guardian shall submit a sworn declaration that the candidate has not passed the qualifying examination from more than one Board / University and had not been selected in MBBS/BDS course in any other State / UT except central counselling by Central Board of Secondary Education.

25. Candidates already admitted:-

Any candidate, who has taken admission in the previous session in MBBS/BDS course, shall not be eligible to seek admission again in the same course on the basis of merit in PMET-2015 .

However, if any candidate who is admitted during the academic session in any institute/course may opt for admission based on marks of PMET-2015 by submitting a sworn declaration at the time of counselling that he/she had surrendered the seat against which he was already admitted.

26. GENERAL CONDITIONS

- a) Admission process shall start with the presence of four members (Chairman and three others) Members coming late can participate, at that stage and the proceedings already completed will not be revised. All members of the interview committee shall mark their attendance and if a member fails to do so, the Chairman and all other members will record his / her presence or video-graph the proceedings.
- b) University will ensure proper display of the available seats for the information of the candidates through suitable arrangement in the waiting hall, where the documents will be checked and the hall where the counseling will take place.
- c) The University will display combined merit list of all candidates including reserve category and also a separate merit list of different categories which should be displayed on the University website at least 7 days before the counseling as well as outside the counseling hall on the day of counseling.
- d) The tuition fee will be paid to the University, by the selected through specified bank challan form. University will transfer collected tuition fee to the respective college after finalization of admission process.
- e) The admission shall be made to only those institutes which are approved from all authorities and affiliated to the University on or before the first counselling. Institute (s) which has applied for affiliation and/or for approval of competent authority (ies) but are unable to get affiliation and such approval from all authorities before this day shall not be considered for counselling.
- f) In order to ensure completion of the prescribed courses (s) and period of study as well as commencement of examination(s) in time, no admission(s) adjustment(s) shall be made after 30th September regardless of any vacancy(ies) that might exist or might arise thereafter for any reason.
- g) The seats of All India quota remaining unfilled, if surrendered by the Director General of Health Services (Medical Examination Cell, New Delhi), to the Punjab Government will be filled from the same Category Candidates based on merit in PMET-2015.
- h) In case of candidates whose parents are not alive, the dependency certificate shall have to be taken from the Deputy Commissioner of the District where the candidate resides.
- i) Students claiming benefits of reservation under SC/BC category shall be required to produce a certificate from the competent authority as per latest instructions.

2/1/15
 3/1/15

- j) Scheduled Caste/BC category candidates shall be eligible to apply for post matric scholarship and reimbursement of fee if they fulfill the terms and conditions laid down by Department of Welfare, Punjab.
- k) There will be only two centralized counseling's and 2nd centralized extended counseling. Admissions are to be granted strictly as per the merit by 15th September of the corresponding year. During the period of 16th September to 30th September admission can be made against vacant seats resulting from exceptional circumstances or surrendered seats only.
- l) Seats remaining vacant under any of the reserve category shall be transferred to the general category or vice-versa.
27. This notification supersedes all the prior notifications for admission to MBBS/BDS courses in the State, issued earlier.

Dated, Chandigarh the:
26.03.2015

Hussan Lal, IAS
Secretary to Government of Punjab,
Department of Medical Education & Research.

Endst. No. 5/35/2014-5HB-III/ 560.

Dated : 30/03/2015.

A copy along with one spare copy is forwarded to the Controller, Printing and Stationary Department, Punjab, for publication in the Punjab Government Gazette (Ordinary) and supply two hundred copies without endorsements to this Department for official use.

Dawinder Lal
Under Secretary, Medical Education & Research

Endst. No. 5/35/2014-5HB-III/ 561-64.

Dated : 30/03/2015.

A copy is forwarded to the following for information and necessary action:-

1. Vice Chancellor, Baba Farid University of Health Sciences, Faridkot.
2. Vice Chancellor, Guru Ravidas Ayurvedic University, Hoshiarpur.
3. Registrar, Baba Farid University of Health Sciences, Faridkot.
4. Registrar, Guru Ravidas Ayurvedic University, Hoshiarpur.

Dawinder Lal
Under Secretary, Medical Education & Research

Endst. No. 5/35/2014-5HB-III/ 565-80.

Dated : 30/03/2015.

A copy is forwarded to the following for information and necessary action:-

- 2/2015*
h n s
- (i) The Secretary to the Government of India, Ministry of Health and Family Welfare, Nirman Bhavan, New Delhi.
 - (ii) The Secretary, Medical Council of India, Temple Lane, Kotla Road, New Delhi.
 - (iii) The Secretary, Dental Council of India, Temple Lane, Kotla Road, New Delhi

- (iv) Director General, Health Services, Ministry of Health and Family Welfare, New Delhi.
- (v) Director Research and Medical Education, Punjab.
- (vi) Director Health and Family Welfare, Punjab, Chandigarh
- (vii) Director, Sports, Punjab, Chandigarh.
- (viii) Director, Welfare of Schedule Castes and Backward Classes, Punjab, Chandigarh.
- (ix) The Secretary, Rajya Sainik Board, Punjab Chandigarh.
- (x) Principal, Government Medical College, Patiala/Amritsar.
- (xi) Principal, Guru Gobind Singh Medical College, Faridkot.
- (xii) Principal, Government Dental College, Patiala/Amritsar.
- (xiii) Principals of Concerned Institutes.
- (xiv) PS/MERM.
- (xv) PS/SMER.
- (xvi) PA/USMER.

Devinder Pal Singh
Under Secretary, Medical Education & Research
6

Syllabus

PHYSICS

Unit I: Physical World and Measurement

Physics - scope and excitement; nature of physical laws; Physics, technology and society.

Need for measurement: Units of measurement; systems of units; SI units, fundamental and derived units. Length, mass and time measurements; accuracy and precision of measuring instruments; errors in measurement, significant figures. Dimensions of physical quantities, dimensional analysis and its applications.

Unit II: Kinematics

Frame of reference. Motion in a straight line: Position-time graph, speed and velocity. Uniform and non-uniform motion, average speed and instantaneous velocity. Uniformly accelerated motion, velocity-time, position-time graphs, relations for uniformly accelerated motion (graphical treatment). Elementary concepts of differentiation and integration for describing motion, Scalar and vector quantities: Position and displacement vectors, general vectors and notation, equality of vectors, multiplication of vectors by a real number; addition and subtraction of vectors. Relative velocity. Unit vector: Resolution of a vector in a plane - rectangular components. Scalar and vector product of vectors. Motion in a plane. Cases of uniform velocity and uniform acceleration-projectile motion. Uniform circular motion.

Unit III: Laws of Motion

Intuitive concept of force. Inertia. Newton's first law of motion; momentum and Newton's second law of motion; impulse: Newton's third law of motion. Law of conservation of linear momentum and its applications. Equilibrium of concurrent forces. Static and kinetic friction, laws of friction. rolling friction, lubrication. Dynamics of uniform circular motion: Centripetal force, examples of circular motion (vehicle on level circular road. vehicle on banked road).

Unit -IV Work, Energy and Power

Work done by a constant force and a variable force; kinetic energy, work-energy theorem, power. Notion of potential energy, potential energy of a spring, conservative forces: conservation of mechanical energy (kinetic and potential energies); non-Conservative forces, motion in a vertical circle; elastic and inelastic collisions in one and two dimensions.

Unit-V Motion of System of Particles and Rigid Body

Centre of mass of a two-particle system, momentum conservation and centre of mass motion. Centre of mass of a rigid body; centre of mass of uniform rod. Moment of a force, torque, angular momentum, conservation of angular momentum with some examples. Equilibrium of rigid bodies, rigid body rotation and equations of rotational motion, comparison of linear and rotational motions; moment of inertia, radius of gyration. Values of moments of inertia for simple geometrical objects (no derivation). Statement of parallel and perpendicular axes theorems and their applications.

Unit-VI Gravitation

Keplar's laws of planetary motion. The universal law of gravitation. Acceleration due to gravity and its variation with altitude and depth. Gravitational potential energy; gravitational potential. Escape velocity, Orbital velocity of a satellite. Geo-stationary satellites.

Unit-VII Properties of Bulk Matter

Elastic behaviour, Stress-strain relationship, Hooke's law, Young's modulus, bulk modulus, shear, modulus of rigidity, poisson's-ratio; elastic energy Pressure due to a fluid column Pascal's law and its applications (hydraulic lift and hydraulic brakes). Effect of gravity on fluid pressure. Viscosity, Stokes' law, terminal velocity, Reynold's number, streamline and turbulent flow. Critical velocity. Bernoulli's theorem and its applications. Surface energy and surface tension, angle of contact, excess of pressure, application of surface tension ideas to drops, bubbles and capillary rise. Heat, temperature, thermal expansion; thermal expansion of solids, liquids and gases, anomalous expansion, specific heat Capacity: C_p , C_v -colorimetry; change of state-latent heat. Heat transfer-conduction, convection radiation and

thermal Conductivity, Qualitative idea of Blackbody radiation, Newton's law of cooling and Stefan's law, Wein's displacement law, Green House effect.

Unit-VIII Thermodynamics

Thermal equilibrium and definition of temperature (zeroth law of thermodynamics). Heat, work and internal energy. First law of thermodynamics. Isothermal and adiabatic processes. Second law of thermodynamics: reversible and irreversible processes. Heat engines and refrigerators. **Unit-IX Behaviour of Perfect Gas and Kinetic Theory**

Equation of state of a perfect gas, work done on compressing a gas. Kinetic theory of gases. Assumptions, concept of pressure. Kinetic energy and temperature; rms, speed of gas molecules; degrees of freedom, law of equipartition of energy (statement only) and application to specific heat capacities of gases: concept of mean free path, Avogadro's number.

Unit-X Oscillations and Waves

Periodic motion - period, frequency, displacement as a function of time. Periodic functions. Simple harmonic motion (S.H.M) and its equation; phase; oscillations of a spring-restoring force and force constant; energy in S.H.M.-kinetic and potential energies: simple pendulum-derivation of expression for its time period: free, forced and damped oscillations (qualitative ideas only), resonance. Wave motion. Longitudinal and transverse waves, speed of wave motion. Displacement-relation for a progressive wave. Principle of superposition of waves, reflection of waves, standing waves in strings and organ pipes, fundamental mode and harmonics, Beats, Doppler effect.

Unit-XI: Electrostatics

Electric Charges; and their Conservation, Coulomb's law-force between two point charges, forces between multiple charges; superposition principle and continuous charge distribution. Electrical field, electric field due to a point charge, electric-field lines; electric dipole, electric field due to a dipole; torque on a dipole in uniform electric field. Electric flux, statement of Gauss's theorem and its applications to find field due to infinitely long straight wire, uniformly charged infinite plane sheet and uniformly charged thin spherical shell (Field inside and outside). Electric potential, potential difference, electric potential due to a point charge, a dipole and system of charges; equipotential surfaces, electrical potential energy of a system of two point charges and of electric dipole in an electrostatic field. Conductors and insulators, free charges and bound charges inside a conductor. Dielectrics and electric polarisation, capacitors and capacitance, combination of capacitors in series and in parallel, capacitance of a parallel plate capacitor with and without dielectric medium between the plates, energy stored in a capacitor, Van de Graaf generator.

Unit-XII: Current Electricity

Electric current, flow of electric charges in a metallic conductor, drift velocity, mobility and their relation with electric current: Ohm's law, electrical resistance. V-I characteristics (linear and non linear), electrical energy and power, electrical resistivity and conductivity. Carbon resistors, colour code for carbon resistors; series and parallel combinations of resistors; temperature dependence of resistance. Internal resistance of a cell, potential difference and emf of cell, combination of cells in series and in parallel. Kirchhoff's laws and simple applications. Wheatstone bridge, meter bridge. Potentiometer-principle and its applications to measure potential difference and for comparing emf of two cells, measurement of internal resistance of a cell.

Unit-XIII: Magnetic Effects of Current and Magnetism

Concept of magnetic field. Oersted's experiment; Biot-savart law and its application to current carrying circular loop. Ampere's law and its applications to infinitely long straight wire, straight and toroidal solenoids. Force on a moving charge in uniform magnetic and electric fields. Cyclotron. Force on a current-carrying conductor in a uniform magnetic field Force between two parallel current-carrying conductors, definition of ampere. Torque experienced by a current loop in uniform magnetic field; moving coil galvanometers- its current sensitivity and conversion to ammeter and voltmeter. Current loop as a magnetic dipole and its magnetic dipole moment. Magnetic dipole moment of a revolving electron. Magnetic field intensity due to a magnetic dipole (Bar magnet) along its axis and perpendicular to its axis. Torque on a magnetic dipole (bar magnet) in a uniform magnetic field; bar magnet as an equivalent solenoid, magnetic field lines; Earth's magnetic field and magnetic elements, Para-, dia-and ferro-magnetic substances with examples, Electromagnets and factors affecting their strengths. Permanent magnets.

Unit-XIV: Electromagnetic Induction and Alternating Currents

Electromagnetic induction, Faraday's laws, induced emf and current, Lenz's Law, Eddy currents: Self and mutual inductance. Alternating current, peak and rms value of alternating current/voltage; reactance and impedances; LC oscillations, (qualitative treatment only), LCR series circuit resonance; power in AC circuit, wattless current. AC generator and transformer.

Unit-XV: Electromagnetic Waves

Need for displacement current, Electromagnetic waves and their characteristics (qualitative ideas only). Transverse nature of electromagnetic waves. Electromagnetic spectrum (Radio waves, Radio-microwaves, infra-red, visible, ultraviolet, X-rays, gamma rays) including elementary facts about their uses.

Unit-XVI: Optics

Reflection of light, spherical mirrors, mirror formula. Refraction of light, total internal reflection and its applications, optical fibers, refraction at spherical surfaces, lenses, thin lens formula, lens-maker's formula. Magnification, power of a lens, combination of thin lenses in contact, combination of lens and mirror. Refraction and dispersion of light through a prism. Scattering of light-blue colour of the sky and reddish appearance of the sun at sunrise and sunset. Optical instruments: Human eye, image formation and accommodation, correction of eye defects (myopia, hypermetropia) using lenses. Microscopes and astronomical telescopes (reflecting and refracting) and their magnifying powers. Waves optics: wave front and Huygens' Principle, reflection and refraction of plane wave at a plane surface using wave fronts. Proof of laws of reflection and refraction using Huygens' Principle. Interference. Young's double hole experiment and expression for fringe width, coherent sources and sustained interference of light. Diffraction due to a single slit, width of central maximum. Resolving power of microscopes and astronomical telescopes. Polarisation, plane polarised light - Brewster's law, uses of plane polarised light and Polaroids.

Unit-XVII: Dual nature of Matter and Radiation

Photoelectric effect, Hertz and Lenard's observations; Einstein's photoelectric equation, particle nature of light. Matter waves-wave nature of particles, de Broglie relation. Davission-Germer experiment (experimental details should be omitted; only conclusion should be explained).

Unit-VIII: Atoms & Nuclei

Alpha-particle scattering experiment; Rutherford's model of atom; Bohr model, energy levels, hydrogen spectrum. Composition and size of nucleus, atomic masses, isotopes, isobars; isotones. Radioactivity- alpha, beta and gamma particles/rays and their properties; radioactive decay law. Mass-energy relation, mass-defect; binding energy per nucleon and its variation with mass number; nuclear fission and fusion,

Unit-XIX: Electronic Devices

Energy bands in solids (qualitative idea only) conductor, insulators and Semiconductors; semiconductor Diode-I-V characteristics in forward and reverse bias, diode as a rectifier, I-V characteristics of LED, photodiode, solar cell and Zener diode, Zener diode as a voltage regulator. Junction transistor, transistor action; characteristics of a transistor: transistor as an amplifier (common emitter configuration) and oscillator, Logic gates (OR, AND, NOT, NAND and NOR). Transistor as a switch.

Unit-XX: Communication Systems

Elements of a communication system (block diagram only); bandwidth of signals (speech, TV and digital data); bandwidth of transmission medium- Propagation of electromagnetic waves in the atmosphere, Sky and space wave propagation. Need for modulation. Production and detection of an amplitude modulated wave.

CHEMISTRY**Unit-I Some Basic Concepts of Chemistry**

General introduction: Importance and scope of chemistry. Historical approach to particulate nature of matter, laws of chemical combination. Dalton's atomic theory: concept of elements, atoms and molecules. Atomic and molecular

masses. Mole concept and molar mass: percentage composition, empirical and molecular formula; chemical reactions, stoichiometry and calculations based on stoichiometry.

Unit-II Structure of Atom

Discovery of electron, proton and neutron; atomic number, isotopes and isobars. Thomson's model and its limitations, Rutherford's model and its limitations. Bohr's model and its limitations, concept of shells and subshells, dual nature of matter and light, De Broglie's relationship, Heisenberg uncertainty principle, concept of orbitals, quantum numbers, shapes of s, p, and d orbitals, rules for filling electrons in orbitals - Aufbau principle, Pauli exclusion principle and Hund's rule, electronic configuration of atoms, stability of half filled and completely filled orbitals.

Unit-III Classification of Elements and Periodicity in Properties

Significance of classification, brief history of the development of periodic table, modern periodic law and the present form of periodic table, periodic trends in properties of elements -atomic radii, ionic radii, Inert gas radii. Ionization enthalpy, electron gain enthalpy, electronegativity, valence, Nomenclature of elements with atomic number greater than 100.

Unit-IV Chemical Bonding and Molecular Structure

Valence electrons, ionic bond, bond parameters, covalent bond. Lewis structure, polar character of covalent bond, covalent character of ionic bond, valence bond theory. resonance, geometry of covalent molecules, VSEPR theory, concept of hybridization involving s, p and d orbitals and shapes of some simple molecules, Molecular orbital theory of homonuclear diatomic molecules(qualitative idea only), hydrogen bond.

Unit-V States of Matter: Gases and Liquids

Three states of matter. Intermolecular interactions, types of bonding, melting and boiling points. Role of gas laws in elucidating the concept of the molecule, Boyle's law. Charles' law, Gay Lussac's law, Avogadro's law. Ideal behaviour, empirical derivation of gas equation, Avogadro's number. Ideal gas equation. Derivation from ideal behaviour, liquifaction of gases, critical temperature, kinetic energy and molecular speeds (elementary idea) derivation from ideal behaviour, liquification of gasses, critical temperature Liquid State - Vapour pressure, viscosity and surface tension (qualitative idea only, no mathematical derivations).

Unit-VI: Solid State

Classification of solids based on different binding forces: molecular, ionic, covalent and metallic solids, amorphous and crystalline solids (elementary idea), unit cell in two dimensional and three dimensional lattices, calculation of density of unit cell, packing in solids packing efficiency, voids, number of atoms per unit cell in a cubic unit cell, points defects, electrical and magnetic properties. Band theory of metals, conductors, semiconductors and insulators and n and p type semiconductors.

Unit VII: Solutions

Types of solutions, expression of concentration of solutions of solids in liquids, solubility of gases in liquids, solid solutions, colligative properties – relative lowering of vapour pressure, Raoult's Law, elevation of B.P., depression of freezing point, osmotic pressure, determination of molecular masses using colligative properties, abnormal molecular mass. Vant Hoff factor.

Unit-VIII Thermodynamics

Concepts of System, types of systems, surroundings. Work, heat, energy, extensive and intensive properties, state functions. First law of thermodynamics - internal energy and enthalpy heat capacity and specific heat measurement of c_U and c_H , Hess's law of constant heat summation, enthalpy of: bond dissociation, combustion, formation, atomization, sublimation. Phase transition, ionization, solution and dilution. Introduction of entropy as a state function, Gibbs energy change for spontaneous and non-spontaneous processes, criteria for equilibrium. Second law of thermodynamics, third law of thermodynamics (Brief introduction).

Unit-IX Equilibrium

Equilibrium in physical and chemical processes, dynamic nature of equilibrium, law of mass action, equilibrium constant, factors affecting equilibrium - Le Chatelier's principle; ionic equilibrium ionization of acids and bases, strong and weak electrolytes, degree of ionization, ionization of polybasic acids, acid strength, concept of pH, Henderson Equation. Hydrolysis of salts (elementary idea). Buffer solutions, solubility product, common ion effect (with illustrative examples).

Unit X: Chemical Kinetics

Rate of a reaction (average and instantaneous), factors affecting rates of reaction; concentration, temperature, catalyst; order and molecularity of a reaction: rate law and specific rate constant, integrated rate equations and half life (only for zero and first order reactions); concept of collision theory (elementary idea, no mathematical treatment). Activation Energy, Arrhenius equation.

Unit-XI Redox Reactions

Concept of oxidation and reduction, redox reactions, oxidation number, balancing redox reactions in terms of loss and gain of electrons and change in oxidation number, application of redox reaction.

Unit XII: Electrochemistry

Redox reactions; conductance in electrolytic solutions, specific and molar conductivity, variations of conductivity with concentration, Kohlrausch's Law, electrolysis and laws of electrolysis (elementary idea) dry cell-electrolytic cells and Galvanic cells; lead accumulator, EMF of a cell, standard electrode potential, Nernst equation and its application to chemical cells, fuel cells; corrosion. Relation between Gibbs Energy change and EMF of cell.

Unit XIII: Surface Chemistry

Absorption physisorption and chemisorption; factors affecting adsorption of gases on solids; catalysis; homogenous and heterogeneous, activity and selectivity; enzyme catalysis; colloidal state: distinction between true solutions, colloids and suspensions; lyophilic, lyophobic, multimolecular and macromolecular/colloids; properties of colloids; Tyndall effect, Brownian movement, electrophoresis, coagulation; emulsion-types of emulsions.

Unit XIV: General Principles and Processes of Isolation of Elements

Principles and methods of extraction – concentration, oxidation, reduction electrolytic method and refining; occurrence and principles of extraction of aluminum, copper, zinc and iron.

Unit-XV Hydrogen

Position of hydrogen in periodic table, occurrence, isotopes, preparation, properties and uses of hydrogen; hydrides - ionic, covalent and interstitial; physical and chemical properties of water, heavy water; hydrogen peroxide preparation, reactions, structure and use; hydrogen as a fuel.

Unit-XVI S Block Elements (Alkali and Alkaline earth metals)

Group 1 and Group 2 elements

General introduction, electronic configuration, occurrence, anomalous properties of the first element of each group, diagonal relationship, trends in the variation of properties (such as ionization enthalpy, atomic and ionic radii), trends in chemical reactivity with oxygen, water, hydrogen and halogens; uses.

Preparation and properties of some important compounds:

Sodium carbonate, sodium chloride sodium hydroxide and sodium hydrogen carbonate, biological importance of sodium and potassium. CaO, CaCO₃ and industrial use of lime and limestone, biological importance of Mg and Ca.

Unit-XVII Some p-Block Elements, General introduction to p-Block Elements

Group 13 elements: General introduction, electronic configurations, occurrence. Variation of properties, oxidation states, trends in chemical reactivity, anomalous properties of first element of the group; Boron- physical and chemical

properties, some important compounds: borax, boric acid, boron hydrides. Aluminium: reactions with acids and alkalies and uses.

Group 14 elements: General introduction, electronic configurations, occurrence, variation of properties, oxidation states, trends in chemical reactivity, anomalous behaviour of first element, Carbon - catenation, allotropic forms, physical and chemical properties; uses of some important compounds: oxides. Important compounds of silicon and a few uses: silicon tetrachloride silicones, silicates and Zeolites, their uses.

Unit XVIII: p-Block Element

Group 15 elements: General introduction, electronic configuration, occurrence, oxidation states, trends in physical and chemical properties; nitrogen - preparation, properties and uses; compounds of nitrogen- preparation and properties of ammonia and nitric acids, oxides of nitrogen (structure only); Phosphorous-allotropic forms; compounds of phosphorous preparation and properties of phosphine, halides (PCl₃, PCl₅) and oxoacids (elementary idea only).

Group 16 elements: General introduction, electronic configuration, oxidation states, occurrence, trends in physical and chemical properties; dioxygen; preparation, properties and uses; classification of oxides; Ozone. Sulphur - allotropic forms; compounds of sulphur preparation, properties and uses of sulphur dioxide, sulphuric acid, industrial process of manufacture, properties and uses, oxoacids of sulphur (structures only).

Group 17 elements: (General introduction, electronic configuration, oxidation states, occurrence, trends in physical and chemical properties; compounds of halogens; preparation, properties and uses of chlorine and hydrochloric acid, interhalogen compounds, oxoacids of halogens (structures only).

Group 18 elements: General introduction, electronic configuration. Occurrence, trends in physical and chemical properties, uses.

Unit-XIX: d and f Block Elements

General introduction, electronic configuration, occurrence and characteristics of transition metals, general trends in properties of the first row transition metals-metallic character, ionization, enthalpy, oxidation states, ionic radii, colour, catalytic properties, magnetic properties, interstitial compounds, alloy formation. Preparation and properties of K₂Cr₂O₇, and KMnO₄.

Lanthanoids - electronic configuration, oxidation states, chemical reactivity and lanthanoid contraction and consequences.

Actenoids - Electronic configuration, oxidation states.

Unit-XX: Coordination Compounds

Coordination compounds - introduction, ligands, coordination number, colour, magnetic properties and shapes, IUPAC nomenclature of mononuclear coordination compounds, bonding; Werner's theory VBT, CFT, Isomerism (structure and stereo) importance of coordination compounds (in qualitative analysis, extraction of metals and biological systems).

Unit-XXI Organic Chemistry Some Basic Principles and Techniques

General introduction, methods of purification, qualitative and quantitative analysis, classification and IUPAC nomenclature of organic compounds. Electronic displacements in a covalent bond:- inductive effect, electromeric effect, resonance and hyper conjugation. Homolytic and heterolytic fission of a covalent bond: free radicals, carbocations, carboanion; electrophiles and nucleophiles, types of organic reactions

Unit-XXII Hydrocarbons

Classification of hydrocarbons

Aliphatic Hydrocarbon

Alkanes Nomenclature isomerism, conformations (ethane only), physical properties, chemical reactions including, free radical mechanism of halogenation, combustion and pyrolysis.

Alkenes - Nomenclature, structure of double bond (ethene) geometrical isomerism, physical properties, methods of preparation; chemical reactions: addition of hydrogen, halogen, water, hydrogen halides (Markovnikov's addition and peroxide effect), ozonolysis, oxidation, mechanism of electrophilic addition.

Alkynes – Nomenclature, structure of triple bond (ethyne), physical properties. Methods of preparation, chemical reactions: acidic character of alkynes, addition reaction of - hydrogen, halogens, hydrogen halides and water.

Aromatic hydrocarbons: Introduction, IUPAC nomenclature: Benzene; resonance aromaticity: chemical properties: mechanism of electrophilic substitution. – nitration sulphonation, halogenation, Friedel Craft's alkylation and acylation: directive influence of functional group in mono-substituted benzene; carcinogenicity and toxicity.

Unit-XXIII: Haloalkanes and Haloarenes.

Haloalkanes: Nomenclature, nature of C-X bond, physical and chemical properties, mechanism of substitution reactions, optical rotation.

Haloarenes: Nature of C-X bond, substitution reactions (directive influence of halogen for monosubstituted compounds only)

Uses and environmental effects of - dichloromethane, trichloromethane, tetrachloromethane, iodoform, freons, DDT.

Unit –XXIV: Alcohols, Phenols and Ethers

Alcohols: Nomenclature, methods of preparation, physical and chemical properties (of primary alcohols only); identification of primary, secondary and tertiary alcohols; mechanism of dehydration, uses, with special reference to - methanol and ethanol.

Phenols: Nomenclature, methods of preparation, physical and chemical properties, acidic nature of phenol, electrophilic substitution reactions, uses of phenols.

Ethers: Nomenclature, methods of preparation, physical and chemical properties, uses.

Unit-XXV: Aldehydes, Ketones and Carboxylic Acids

Aldehydes and Ketones: Nomenclature, nature of carbonyl group, methods of preparation, physical and chemical properties, and mechanism of nucleophilic addition, reactivity of alpha hydrogen in aldehydes; uses.

Carboxylic Acids: Nomenclature, acidic nature, methods of preparation, physical and chemical properties; uses.

Unit-XXVI: Organic compounds containing Nitrogen

Amines: Nomenclature, classification, structure, methods of preparation, physical and chemical properties, uses, identification of primary, secondary and tertiary amines.

Cyanides and Isocyanides - will be mentioned at relevant places in context.

Diazonium Salts: Preparation, chemical reactions and importance in synthetic organic chemistry.

Unit-XXVII: Biomolecules

Carbohydrates - Classification (aldoses and ketoses), monosaccharides (glucose and fructose), oligosaccharides (sucrose, lactose, maltose), polysaccharides (starch, cellulose, glycogen); importance

Proteins - Elementary idea of amino acids, peptide bond, polypeptides proteins, primary structure, secondary structure, tertiary structure and quaternary structure (qualitative idea only), denaturation of proteins; enzymes.

Vitamins: Classification and functions.

Hormones: Elementary idea (excluding structure)

Nucleic Acids: DNA & RNA .

Unit-XXVIII: Polymers

Classification - natural and synthetic, methods of polymerization (addition and condensation), copolymerization. Some important polymers; natural and synthetic like polythene, nylon, polyesters, bakelite, rubber. Biodegradable and Non-Biodegradable Polymers.

Unit-XXIX: Chemistry in everyday life:

1. Chemicals in medicines analgesic, tranquilizers, antiseptics, disinfectants, antimicrobials, antifertility drugs, antibiotics, antacids, antihistamines.

2. Chemicals in food- preservatives, artificial sweetening agents. Elementary idea of antioxidants.

3. Cleansing agents - soaps and detergents, cleansing action.

Unit-XXX Environmental Chemistry

Environmental pollution - air, water and soil pollution, chemical reactions in atmosphere, smog, major atmospheric pollutants; acid rain, ozone and its reactions, effects of depletion of ozone layer; greenhouse effect and global warming - pollution due to industrial wastes: green chemistry as an alternative tool for reducing pollution, strategy for control of environmental pollution.

BIOLOGY

Unit I. Diversity in Living World

What is living?; Biodiversity; Need for classification; Three domain of life; Taxonomy & Systematic; Concept of species and taxonomical hierarchy; Binomial nomenclature; Tools for study of Taxonomy-Museums, Zoos, Herbaria, Botanical gardens.

Five Kingdom classification; Salient features and classification of Monera; Protista and Fungi into major groups; Lichens; Viruses and Viroids.

Salient features and classification of plants into major groups-Algae, Bryophytes, Pteridophytes, Gymnosperm and Angiosperm (three to five salient and distinguishing features and at least two examples of each category) Angiosperms-classification up to class, characteristics features and examples.

Salient features and classification of Animals-non chordate up to phyla level and chordate up to classes level (three to five salient features and at least two examples)

Unit II Structural Organization in Animals and Plants

Morphology and modifications; Tissues; Anatomy and functions of different parts of flowering plants: Root, stem, leaf, inflorescence-cymose and racemose, flower, fruit and seed (To be dealt along with the relevant practical of the practical syllabus).

Animal tissues; Morphology, anatomy and functions of different systems (digestive, circulatory, respiratory, nervous and reproductive) of an insect (cockroach). (Brief account only)

Unit III Cell Structure and Function

Cell theory and cell as the basic unit of life; Structure of prokaryotic and eukaryotic cell; Plant cell and animal cell; Cell envelope, cell membrane, cell wall; Cell organelles-structure and function; Endomembrane system-endoplasmic reticulum, Golgi bodies, lysosomes, vacuoles; mitochondria, ribosomes, plastids, microbodies; Cytoskeleton, cilia, flagella, centrioles (ultra structure and function); Nucleus-nuclear membrane, chromatin, nucleolus.

Chemical constituents of living cells: Biomolecules- structure and function of proteins, carbohydrates, lipid, nucleic acid; Enzymes-types, properties, enzyme action.

Cell division: Cell cycle, mitosis, meiosis and their significance.

Unit IV Plant Physiology

Transport in plants: Movement of water, gases and nutrients; Cell to cell transport- Diffusion, facilitated diffusion, active transport; Plant- water relations-imbibition, water potential, osmosis, plasmolysis; Long distance transport of water- Absorption, apoplast, symplast, transpiration pull, rootpressure and guttation; Transpiration-Opening and Closing of stomata; Uptake and translocation of mineral nutrients- Transport of food; Phloem transport, Mass flow hypothesis; Diffusion of gases (brief mention).

Mineral nutrition: Essential minerals, macro and micronutrients and their role; Deficiency symptoms; Mineral toxicity; Elementary idea of Hydroponics as a method to study mineral nutrition; Nitrogen metabolism-Nitrogen cycle, biological nitrogen fixation.

Photosynthesis: Photosynthesis as a means of Autotrophic nutrition; Where does photosynthesis take place; How many pigments are involved in Photosynthesis (Elementary idea); Photochemical and biosynthetic phases of photosynthesis; Cyclic and non cyclic photophosphorylation; Chemiosmotic hypothesis; Photorespiration; C₃ and C₄ pathways; Factors affecting photosynthesis.

Respiration: Exchange of gases; Cellular respiration- glycolysis, fermentation (anaerobic), TCA cycle and electron transport system (aerobic); Energy relations- Number of ATP molecules generated; Amphibolic pathways; Respiratory quotient.

Plant growth and development: Seed germination; Phases of plant growth and plant growth rate; - Conditions of growth; Differentiation, dedifferentiation and redifferentiation, Sequence of developmental process in a plant cell; Growth regulators-auxin, gibberellin, cytokinin, ethylene, ABA; Seed dormancy; Vernalisation; Photoperiodism.

Unit V Human Physiology

Digestion and Absorption: Alimentary canal and Digestive glands; Role of digestive enzymes and gastrointestinal hormones; Peristalsis, Digestion, absorption and assimilation of proteins, carbohydrates and fats, Calorific value of proteins, carbohydrates and fats (for box item not to be evaluated); Egestion; Nutritional and digestive disorders - PEM, indigestion, constipation, vomiting, jaundice, diarrhea.

Breathing and Respiration: Respiratory organs in animals (Recall only); Respiratory system in humans; Mechanism of Breathing and its regulation in humans - Exchange of gases, transport of gases and regulation of respiration, Respiratory volumes; Disorders related to respiration - Asthma, Emphysema, Occupational Respiratory disorders.

Body fluids and Circulation: Composition of blood, Blood groups, Coagulation of blood; Composition of Lymph and its function; Human circulatory system - Structure of human heart and blood vessels; Cardiac cycle, Cardiac output, ECG; Double circulation; Regulation of cardiac activity; Disorders of circulatory system - Hypertension, Coronary artery disease, Angina pectoris, heart failure.

Excretory products and their elimination: Modes of excretion - Ammonotelism, ureotelism; Uricotelism; Human excretory system – structure and function; Urine formation, Osmoregulation; Regulation of kidney-function - Renin-angiotensin, Atrial Natriuretic Factor, ADH and Diabetes insipidus; Role of other organs in excretion; Disorders - Uraemia, Renal failure, Renal calculi, Nephritis; Dialysis and artificial kidney.

Locomotion and Movement: Types of movement-ciliary, flagellar, muscular; Skeletal muscle - contractile proteins and muscle contraction; Skeletal system and its functions. (To be dealt with the relevant practical of Practical Syllabus); Joints; Disorders of muscular and skeletal system – Myasthenia gravis, Tetany, Muscular dystrophy, Arthritis, Osteoporosis, Gout.

Neural control and coordination: Neuron and nerves; Nervous system in humans-central nervous system, Peripheral nervous system and visceral nervous system; Generation and conduction of nerve impulse; Reflex action; Sense organs; Sensory Perception; Elementary structure and function of eye and ear.

Chemical coordination and regulation: Endocrine glands and hormones; Human endocrine system-Hypothalamus, Pituitary, Pineal, Thyroid, Parathyroid, Adrenal, Pancreas, Gonads; Mechanism of hormone action (Elementary idea); Role of hormones as messengers and regulators, Hypo- and hyperactivity and related disorders. (Common disorders eg. Dwarfism, Acromegaly, Cretinism, goiter, exophthalmic goiter, diabetes, Addison's disease).

Imp: Diseases related to all the human physiology systems to be taught in brief.

Unit VI. Reproduction

Reproduction in organisms: Reproduction, a characteristic feature of all organism for continuation of species; Modes of reproduction-Asexual and sexual reproduction Modes –Binary fission, sporulation, budding, gemmule, fragmentation; vegetative propagation in plants.

Sexual reproduction in flowering plants: Flower structure; Development of male and female gametophytes; Pollination-types, agencies and examples; Outbreedings devices; Pollen-Pistil interaction; Double fertilization; Post fertilization events- Development of endosperm and embryo, Development of seed and formation of fruit; Special modes-apomixis, parthenocarpy, polyembryony; Significance of seed and fruit formation.

Human Reproduction: Male and female reproductive systems; Microscopic anatomy of testis and ovary; Gametogenesis-spermatogenesis & oogenesis; Menstrual cycle; Fertilisation, embryo development upto blastocyst formation, implantation; Pregnancy and placenta formation (Elementary idea); Parturition (Elementary idea); Lactation (Elementary idea).

Reproduction health: Need for reproductive health and prevention of sexually transmitted diseases (STD); Birth control – Need and Methods, Contraception and Medical Termination Pregnancy (MTP); Amniocentesis; Infertility and assisted reproductive technologies-IVF, ZIFT, GIFT (Elementary ideas for general awareness).

Unit VII. Genetics and Evolution

Heredity and variation: Mendelian Inheritance; Deviations from Mendelism- Incomplete dominance, Co-dominance, Multiple alleles and Inheritance of blood groups, Pleiotropy; Elementary idea of polygenic inheritance; Chromosome theory of inheritance; Chromosomes and genes; Sex determination-In humans, birds, honey bee; Linkage and crossing over; Sex linked inheritance – Haemophilia, Colour blindness; Mendelian disorders in humans- Thalassemia; Chromosomal disorders in humans; Down’s syndrome, Turner’s and Klinefelter’s syndromes.

Molecular Basis of Inheritance: Search for genetic material and DNA as genetic material; Structure of DNA and RNA; DNA packaging; DNA replication; Central dogma; Transcription, genetic code, translation; Gene expression and regulation- Lac Operon; Genome and human genome project; DNA finger printing.

Evolution: Origin of life; Biological evolution and evidences for biological evolution (Paleontological, Comparative anatomy, embryology and molecular evidence); Darwin’s contribution, Modern Synthetic theory of Evolution; Mechanism of evolution-Variation (Mutation and Recombination) and Natural Selection with examples, types of natural selection; Gene flow and genetic drift; Hardy-Weinberg’s principle; Adaptive Radiation; Human evolution.

Unit VIII. Biology and Human Welfare

Health and Disease: Pathogens; parasites causing human diseases (Malaria, Filariasis, Ascariasis, Typhoid, Pneumonia, common cold, amoebiasis, ring worm); Basic concepts of immunology-vaccines; Cancer, HIV and AID’s; Adolescence, drug and alcohol abuse.

Improvement in food production: plant breeding, tissues culture, sigle cell protein, Bifortification, Apiculture and animal husbandary.

Microbes in human welfare: In household food processing, industrial production, sewage treatment, energy generation and as biocontrol agents and biofertilizers.

Unit IX. Biotechnology and its applications

Principles and process of Biotechnology: Genetic engineering (Recombinant DNA technology).

Application of Biotechnology in health and agriculture: Human insulin and vaccine production, gene therapy; genetically modified organisms- Bt crops; Transgenic Animals; Biosafety issues-Biopiracy and patents.

Unit X. Ecology and environment

Organisms and environment: Habitat and niche; Population and ecological adaptations; Population interactions- mutualism, competition, predation, parasitism; Population attributes-growth, birth rate and death rate, age distribution.

Ecosystems: Patterns, components; productivity and decompositions; Energy flow; Pyramids of number, biomass, energy; Nutrients cycling (carbon and phosphorous); Ecological succession; Ecological Services-Carbon fixation, pollination, oxygen release.

Biodiversity and its conservation: Concepts of Biodiversity; Patterns of Biodiversity; Importance of Biodiversity; Loss of Biodiversity; Biodiversity conservation; Hotspots, endangered organisms, extinction, Red Data Book, biosphere reserves, National parks and sanctuaries.

Environmental issues: Air pollution and its control; Water pollution and its control; Agrochemicals and their effects; Solid waste management; Radioactive waste management; Greenhouse effect and global warming; Ozone depletion; Deforestation; Any three case studies as success stories addressing environmental issues.

Annexure –II
Academic and Exemption Certificates
Form No. 1

CERTIFICATE FROM THE PRINCIPAL/HEAD OF THE INSTITUTION LAST ATTENDED
(Compulsory for all Candidates)

It is certified that Mr./Miss _____ S/o D/o
Sh. _____ has studied 10+1 & 10+2 from school/s which are
recognized institution(s) as under:

Class	Name of School with city and State	Passing year
10+1		
10+2		

Class	School/College Roll No. in case of 11th Class exams. Board Roll No. in case of 12th class	Year	Marks obtained/ Total Marks								
			Physics		Chemistry		Biology		English		
			Obt.	Max.	Obt.	Max.	Obt.	Max.	Obt.	Max.	
10+1											
10+2											

Signature of the Headmaster/Principal
of Institution Last attended
(with official seal)

Date _____
Place _____

COMPULSORY FOR ALL CANDIDATES

Sworn Declaration from the Parent/Guardian

I.....father/mother/guardian of Miss/Mr.....
resident of
(full address to be given)

do, hereby, undertake that:

1. That I am a citizen of India.
2. That my child/ward has not been selected in MBBS/BDS course in any other state/UT except central counselling by CBSE.
3. That my son/daughter/ward has not passed the qualifying examination from more than one Board/ University.
4. Tick appropriate:
 - a) That my son/daughter/ward had not been taken admission in MBBS/BDS course in previous session.

OR

 - b) That my Son/daughter/ward had taken admission in _____ course at _____ college during sessions_____.
5. I further declare that if any of the information given by me or my son/daughter/ward at any stage even after the admission, the admission is liable to be cancelled.

Dated:

SIGNATURE OF PARENT/GUARDIAN

CERTIFICATES/FORMS REGARDING EXEMPTIONS

UNDER EXEMPTION – 16 (I)

FORM NO.2

CERTIFICATE FROM THE EMPLOYER IN THE CASE OF EMPLOYEES OF GOVERNMENT OF PUNJAB MEMBERS OF ALL INDIA SERVICES BORNE ON PUNJAB CADRE, EMPLOYEES OF STATUTORY BODIES/CORPORATIONS/BOARDS ESTABLISHED BY OR UNDER AN ACT OF STATE OF PUNJAB.

I certify that Mr./Ms _____ S/o D/o Sh. _____ is serving as regular employee of government of Punjab/Member of all India Services borne on Punjab cadre/regular employee of statutory Body/Corporation/Board established by or under an act of the State of Punjab.

He/she is holding the post of _____ in the Department _____ and is presently posted at _____ (place of service), w.e.f. _____ (date of posting) to _____.

He/She is Father/Mother/Guardian of _____

(Name of Candidate)

and the candidate is fully dependent upon him/her. (Guardian will be considered in place of Father/Mother only in case neither parents was alive at the relevant time)

Dated _____
Place _____

Signature of the Employer
(with official seal)

(Exact date, month and year since when one is posted at the present place are to be given).

FORM NO.3

UNDER EXEMPTION - 16 (II)

CERTIFICATE FROM THE EMPLOYER IN CASE OF REGULAR EMPLOYEES OF CENTRAL GOVERNMENT WITH PUNJAB DOMICILE WHO HAVE SERVED FOR ATLEAST TWO YEARS IN THE STATE OF PUNJAB OUT OF THE THREE YEARS PRECEDING THE YEAR OF ENTRANCE EXAMINATION THAT IS 2 YEARS OUT OF 2012, 2013 AND 2014.

I certify that Mr/Ms _____ S/o D/o _____
Mr/Ms _____ is serving as a regular employee of central Government in the Department of _____
Mr/Ms. _____ has served in the State of Punjab at _____ (place of service) _____ District for the period _____ to _____ during 2012, 2013 and 2014.

He/She is Father/Mother/Guardian of _____

(Name of Candidate)

and the candidate is fully dependent upon him/her. (Guardian will be considered in place of Father/Mother only in case neither parents was alive at the relevant time)

Dated _____
Place _____

Signature of the Employer
(with official seal)

UNDER EXEMPTION - 16 (III)

CERTIFICATE FROM THE EX-EMPLOYER OF PUNJAB GOVERNMENT PENSIONER SETTLED OUTSIDE THE STATE OF PUNJAB OF THE YEAR OF PASSING 10+2 EXAMINATION.

I certify that Mr./Ms_____ S/o, D/o Mr/Ms._____ is a Punjab Government Pensioner retired from the Department of _____ on _____ while holding the post of _____ His/her P.P.O. No. is _____ and he/she is drawing his/her pension from _____ he/she is settled outside Punjab at the address given below since _____. He/she retired on _____ from the office of _____ at _____.

Complete Address _____

He/She is Father/Mother/Guardian of _____
 (Name of Candidate)

and the candidate is fully dependent upon him/her. (Guardian will be considered in place of Father/Mother only in case neither parents was alive at the relevant time)

Dated _____
 Place _____

Signature of the Employer
 (with official seal)

UNDER EXEMPTION - 16(IV)

CERTIFICATE FROM THE EMPLOYER IN THE CASE OF EMPLOYEES OF INDIAN DEFENCE SERVICES/ PARA MILITARY FORCES.

I certify that Mr/Ms_____ S/o, D/o Shri_____ is regular employee of Indian Defence Service/Para Military forces **belongs to Punjab State** as per his/her service record at the time of entry into service and the home address given there is _____ (District _____), Punjab.

He/She is Father/Mother/Guardian of _____
 (Name of Candidate)

and the candidate is fully dependent upon him/her. (Guardian will be considered in place of Father/Mother only in case neither parents was alive at the relevant time)

Dated _____
 Place _____

Signature of
 Officer Commanding/Competent Authority
 (With official seal).

UNDER EXEMPTION - 16(V)

CERTIFICATE FOR THE EX-EMPLOYEES OF INDIAN DEFENCE SERVICES/PARA MILITARY FORCES RETIRED ON OR AFTER 1ST JANUARY, 2013.

Certified that Number _____
 Rank _____
 Name _____
 S/o _____
 Resident of village _____
 Post office _____
 Tehsil _____
 Distt _____

Belonging to State of Punjab as per his/her service record at the time of entry into service. He had served in the Army/Navy/Air Force/_____ (Name of the Para-Military Forces) from _____ and subsequently discharged/retired from the service on _____. As per his/her service record at the time of entry into service the home address given is village/Town _____ Punjab.

He/She is Father/Mother/Guardian of _____
 (Name of Candidate)

and the candidate is fully dependent upon him/her. (Guardian will be considered in place of Father/Mother only in case neither parents was alive at the relevant time)

Dated _____
 Place _____

Signature of
 Officer Commanding/Competent Authority
 (With official seal).

ANNEXURE- III
CERTIFICATES OF RESERVED CATEGORIES

Categories Code-12

CERTIFICATE OF SCHEDULED CASTE

**As per letter No.1/41/96-RCI/110001-17, dated 5.12.1996 of
Govt. of Punjab, Department of Welfare (Reservation Cell)**

It is certified that Shri/Shrimati/Kumari _____ son/daughter of
Sh. _____ of village/town _____ District/Division
_____ state of Punjab belongs to _____ caste which has been recognised
as Scheduled caste as per "The Constitution (Scheduled Castes) Order, 1950"

2. Shri/Shrimati/Kumari _____ and his/ her family lives in village/
town _____ District/ Division _____ of Punjab State

Date _____

Signature

Place _____

Designation
Seal of office

Competent authority to issue Caste Certificate

- I. District Magistrate/Additional District Magistrate/Collector/Deputy Commissioner/ Additional Deputy Commissioner/ Deputy Collector/First Class Stipendiary Magistrate/ City Magistrate/Sub Divisional Magistrate /Talika Magistrate/ Executive Magistrate/ Extra Assistant Commissioner (Not below the rank of first class Stipendiary Magistrate).
- II. Chief Presidency Magistrate/Additional Chief Presidency Magistrate/Presidency Magistrate.
- III. Revenue Officer not below the rank of Tehsildar.
- IV. Sub-Divisional Officer of the area where the candidate and/or his family normally resides.
- V. Administrator/Secretary to Administrator/Development Officer Lakshadweep Islands. (circulated vide no.2/223/79-SWI/4337, dated 8.6.90)

OR

The certificate for this purpose issued by any other competent authority declared by Government of Punjab in any other prescribed proforma.

Category Code-13

FORM OF CERTIFICATE TO BE PRODUCED BY A CANDIDATE BELONGING TO A BACKWARD CLASS IN SUPPORT OF HIS/HER CLAIM.

As per letter No.1/41/96-RCI/110001-17, dated 5.12.1996 and No.1/41/93-RC1/1597, dated 17.8.2005 and No.1/41/93-RC1/209, dated 24.2.2009 of Govt. of Punjab, Department of Welfare (Reservation Cell)

This is to certify that Shri/Shrimati/ Kumari _____ son/daughter of _____ village/town _____ in district/division _____ of the state of Punjab belongs to the _____ caste which is recognised as a Backward Class in terms of Punjab Govt. letter No. _____ dated _____.

2. This is also certified that he/she does not belong to any category of persons/sections mentioned in column 3 of the schedule to Punjab Government, Department of Welfare letter No.1/41/93-RC1/459, dated 17.1.1994 and No.1/41/93-RC1/1597, dated 17.8.2005 and No.1/41/93-RC1/209, dated 24.2.2009 for BC.

3. Shri/Shrimati/Kumari _____ and/or/his/her family ordinarily reside(s) in village/town _____ of District/ Division _____ of the state of Punjab.

4. The annual income of the family from all sources is Rs. _____.

Place: _____

Signature _____

State: _____

Designation _____

Date: _____

(with office seal of the officer concerned)

Competent authority to issue Backward Class Certificate:

- i) Sub-Divisional Magistrate
- ii) Executive Magistrate
- iii) Tehsildar
- iv) Naib Tehsildar
- v) Block Officer
- vi) District Revenue Officer
(circulated vide No.2/223/79-SWI/4337, dated 8.6.1990)

* The certificate must not be dated one year before the first day of counseling for admission. A certificate issued more than one year before the counseling date shall not be valid.

CATEGORY CODE-14
BACKWARD AREA CERTIFICATE

Dispatch No. _____

Date _____

Certified that _____ son/daughter of Shri
_____ is a bonafide resident of
_____ Tehsil _____

District _____ which has been declared as Backward Area by the Punjab Government.

His/her claim falls under category* _____ indicated below:

- a) a person who with the family members has been residing in a particular village or town included in the list of areas which are declared backward constantly for a period of ten years or more and is likely to continue to reside there.
- b) a person who has been residing in the village/ town for a period of less than ten years but not less than five years who is likely to reside there on account of the fact that he has obtained employment and will settle there after retirement.

In case of a person who has been residing in a village or town included in the list of areas which are declared backward and has migrated to another village or town in the said area, the total of his stay at both places will be counted.

Dated:

DC/GA to DC or SDM
(With Official Seal)

- Please mention here category (a) or (b) as the case may be.
- Certificate from authority other than DC/GA to DC or SDM is not valid and will not be accepted.

CATEGORY CODE- 15
CERTIFICATE OF HAILING FROM BORDER AREA

Dispatch No. _____

Date _____

i) I certify that _____ son/ daughter of Shri _____ of village _____ District _____ is a bonafide resident of village _____ District _____. The village/ town falls within the belt of 10 miles from the international border.

It is further certified that _____ has studied for at least 5 years in a recognized institution located in such village/ town as per dates of joining and leaving school/ college given below:-

- (1) _____
- (2) _____
- (3) _____
- (4) _____

*DC/GA to DC/ SDM of the concerned Distt.

Dated _____

(With Official Seal)

* Certificate from no other authority will be accepted.

ii) Certified that _____ son/ daughter of Shri _____ of village _____ District _____ was a bonafide student of the School/ College from _____ to _____ (exact date of joining and leaving the school/ college to be given) (Nursery/ LKG/ UKG etc. not included).

Place _____

Signature of Headmaster/ Principal of the
School/ College (With Seal)

Date _____

NOTE: A candidate shall be eligible for admission under Border Area of category above only if he/she hails from a town/ village within the belt of ten miles from the international border and he/ she has studied for at least five years in a recognized institution located in such town/village (Nursery/LKG/UKG etc. not included). Two certificates to this effect should be obtained, one from DC/GA to DC of the District or the Sub-Divisional Magistrate of the Sub-Division concerned and another from the Headmaster/Principal of the Institution with details of exact date of joining and leaving the School/College. Exact particulars must be mentioned in the certificates.

CATEGORY CODE - 16

The eligibility of the handicapped categories candidates will be determined by the Medical Board at the time of counselling as per Punjab Govt. Notification/s.

Certified that the following candidate appeared before the Medical Board on_____. All the three members of the Medical Board examined the candidate carefully and have decided to certify as follows:

- 1. Name of the candidate -----
- 2. Father's name -----
- 3. Permanent Address of the candidate -----
- 4. Name of the disease causing handicap -----
- 5. % (Percentage) of handicap -----
- 6. Whether the disease is progressive or non-
progressive -----
- 7. Whether the candidate is otherwise fit to
carry on studies and will be able to perform
duties of a doctor satisfactorily. -----

Member

Member

Chairman

CATEGORY CODE - 17

The eligibility of the candidates under Sports Category will be decided at the time of counselling as per Punjab Govt. Notification/s.

CATEGORY CODE-18

**CERTIFICATE IN RESPECT CHILDREN/GRANDCHILDREN OF PERSONS KILLED IN TERRORIST
ACTIVITY IN PUNJAB**

No. _____

Date _____

Certified that Mr./MS. _____ Son/Daughter of Sh. _____

R/o _____

was killed in terrorist activities in Punjab. He/She was Father/Mother/Grand Father/ Grand Mother/ Guardian of

(name of candidate)

(*Guardian will be considered only in case neither parent was alive at the relevant time).

Date _____

D.C./G.A. to D.C. of the respective District
(With seal)

CATEGORY CODE –19
CERTIFICATE IN RESPECT CHILDREN/GRANDCHILDREN OF TERRORIST AFFECTED/DISPLACED PERSONS

No. _____

Date _____

Certified that Mr./MS. _____ Son/Daughter of Sh. _____
R/o _____ is
terrorist affected /terrorism displaced person. He/She is Father/Mother/Grand Father/ Grand Mother/Guardian
of _____
(name of candidate)

(*Guardian will be considered only in case neither parent was alive at the relevant time).

Date _____

D.C./G.A. to D.C. of the respective District
(With seal)

CATEGORY CODE –20
CERTIFICATE IN RESPECT CHILDREN/GRANDCHILDREN OF PERSONS KILLED IN SIKH RIOTS OUTSIDE PUNJAB

No. _____

Date _____

Certified that Mr./MS. _____ Son/Daughter of Sh. _____
R/o _____ was
killed in Sikh riots activities outside Punjab. He/She was Father/Mother/Grand Father/ Grand Mother/ Guardian
of _____
(name of candidate)

(*Guardian will be considered only in case neither parent was alive at the relevant time).

Date _____

D.C./G.A. to D.C. of the respective District
(With seal)

CATEGORY CODE –21
CERTIFICATE IN RESPECT CHILDREN/GRANDCHILDREN OF SIKH RIOT AFFECTED OR DISPLACED PERSONS

No. _____

Date _____

Certified that Mr./MS. _____ Son/Daughter of Sh. _____
R/o _____
is Sikh riot affected or displaced person of Punjab origin. He/She is Father/ Mother/ Grand Father/ Grand
Mother/ Guardian of _____
(name of candidate)

(*Guardian will be considered only in case neither parent was alive at the relevant time).

Date _____

D.C./G.A. to D.C. of the respective District
(With seal)

CATEGORIES CODE- 22 TO 27

CERTIFICATE TO BE FURNISHED BY WARDS OF DEFENCE PERSONNEL KILLED OR DISABLED TO THE EXTENT OF 50% OR MORE IN ACTION, WARDS OF GALLENTARY AWARDEES AND WARDS OF SERVING DEFENCE PERSONNEL.

Certified that Mr./Ms. _____ Son/Daughter of Sh. _____ resident of _____ is/was father/mother/guardian of Sh./Mrs. _____ (Name of the candidate) has been/is:

- i) Killed in action.
- ii) disabled in action to the extent of 50% or above & Boarded out of service.
- iii) Died while in service & Death attributed to military service
- iv) Disabled in service & Boarded out with diseasable attributed to military service.
- v) Gallantry award/ other award winners both in service/ retired.
- vi) Serving Defence Personnel/Ex-serviceman

Date: (Official Seal)

Signature of Commanding Officer/
Secretary District Sainik Welfare

Note: The candidates seeking admission against above category should produce a certificate from the Army Headquarters or the Commanding Officer of the Unit in the case of serving defence personnel and Army headquarters or Commanding Officer of the last armed Unit or Secretary Zila Sainik Board countersigned by the Secretary, Rajya Sainik Board as the case may be in the case of Ex-defence personnel. In doubtful cases of Ex-defence personnel, discharge certificate may be asked for

CATEGORIES CODE- 28 TO 30

CERTIFICATE TO BE FURNISHED BY WARDS OF PUNJAB POLICE PERSONNEL, PUNJAB ARMED POLICE, PUNJAB HOME GUARDS AND PARA- MILITARY FORCES KILLED OR DISABLED TO THE EXTENT OF 50% OR MORE IN ACTION AND WINNERS OF PRESIDENTS POLICE MEDAL FOR GALLANTRY OR POLICE MEDAL FOR GALLANTRY.

Dispatch No. _____

Dated _____

Certified that Mr/Ms _____ S/D of Mr/Ms _____ was killed/50% or more disabled in action which took place at _____ on _____/decorated with President Police Medal for Gallantry/winner of Police Medal for Gallantry is a Punjab Police Personnel/ Punjab Armed Police/ Punjab Home Guards/ Para Military Forces Personnel.

He/She is *Father/Mother/Guardian of _____

(Name of Candidate)

and the candidate is fully dependent upon him/her. (Guardian will be considered in place of Father/Mother only in case neither parents was alive at the relevant time)

Date:

Signature of IG Police (HQ), Punjab
(Seal)

* Strike through whichever is not applicable.

CATEGORY CODE - 31

CERTIFICATE FOR CHILDREN/GRAND CHILDREN OF FREEDOM FIGHTERS

Dispatch No. _____

Date _____

Certified that Mr/Ms _____ Son/Daughter of Sh. _____ of
village _____ P.O. _____ Tehsil _____ District _____ is a
bonafide freedom fighter and has been granted freedom fighter's pension by the Punjab Government vide letter
No. _____ dated _____ or has been awarded Tamra Patra for his political sufferings.

He/She is/was *Grand Father/ Grand Mother/Father/Mother of _____

(Name of Candidate)

Place:

Date:

(Official Seal)

Signature of *DC/ADC/ GA to DC
of the Distt to which the
freedom fighter belongs to.

* Strike through whichever is not applicable.

* Certificate from no other authority will be accepted

Category Code 32

Migrants from Jammu & Kashmir due to terrorist Violence

Certificate from appropriate authority for J & K Migrants due to terrorists violence.

Annexure-IV

UNDERTAKING AND RESIDENT CERTIFICATES

Self Undertaking for Gap in Study

I _____ S/o, D/o Shri _____ resident of _____ (full address to be given) do hereby solemnly state and affirm as under:-

1. That I have passed 10+2 examination held in _____ from _____ (name of the college/school)
2. That I have not joined any college/institution after passing 10+2

OR

That I have joined the course of _____ at _____ (name of the institution) from _____ and will leave the same before joining the MBBS/BDS which ever applicable.

Dated : _____

Candidate Signature

**No.1/3/95-3PP II/9619
GOVERNMENT OF PUNJAB
DEPARTMENT OF PERSONNEL AND ADMINISTRATIVE REFORMS (PERSONNEL
POLICIES II BRANCH)**

Dated, Chandigarh the 6/6/96

To

- (i) All the Financial Commissioners to the Govt. of Punjab.
- (ii) All the Principal Secretaries/Administrative Secretaries to the Government of Punjab.
- (iii) All Heads of Departments, Commissioners of Division, Registrar, Punjab & Haryana High Court, District and Session Judges, Deputy Commissioners, Sub Divisional Officers (Civil) in the Punjab State.

Subject:- Bonafide resident of Punjab-Guidelines for grant of Residence Certificate.

Sir/Madam,

I am directed to invite your attention to the Punjab Government Circular Letter No.1/3/95-3PP II/2043, dated 29/1/1996 vide which the instructions were issued regarding simplification of procedure for obtaining the certificate of Domicile for purposes of admission to educational institutions (including technical/medical institution). The matter has been reconsidered in the light of judgement delivered by the Hon'ble Supreme Court of India in the case of Dr. Pradeep Jain Vs. Union of India and others reported as AIR 1984-SC-4121 wherein it was held that instead of the word 'Domicile' the word 'Residence' be used in the instructions issued by the State Government on the subject. Accordingly, it has been decided by the Government to revise the Government instructions referred to above as under:

**Affidavit/Certificate and the authorities
competent to issue the same**

- (a) Citizen of India
- (b) Produce an affidavit to the effect that they or their Children/wards have not obtained the benefit of Residence in any other State

Affidavit of the parents/guardian to be attested by an Executive Magistrate/Oath Commissioner/Notary Public

Categories

- i) Candidates who have studied for a period of 5 years in Punjab or have studied in Punjab for 2 years just preceding the qualifying examination for the admission.
- ii) Children wards of
- a) The employees of Punjab Govt. posted in or outside Punjab State or working on deputation having atleast 3 years of service.
- b) The employee of Govt. of India posted in Chandigarh or in Punjab in connection with the affairs of the Punjab Govt. for a period of 3 years. - do -
- c) The employees of State Govt. institutions/undertakings who are posted in Chandigarh or in Punjab in connection with the affairs of the Punjab Govt. for a period of 3 years. - do -
- d) The employees having atleast 3 years of service in autonomous bodies/companies in which Punjab Govt. has 20% or more shares: - do -
- e) The Residents who are residing outside Punjab on Account of their service either with the GOI or with the employees of the Govt. of Punjab in the matter of issue of 'Residence Certificate' provided the permanent address of such employees fall in the reorganized Punjab i.e. on or after 01.11.66, as per their service books. -do-
- f) *The employees borne on the establishment of Punjab and the Haryana High Court discharging duties in connection with the affairs of the State of Punjab having atleast three years of service who have not availed this facility from their parent State and State of Haryana and U.T; Chandigarh
- iii) **Children/wards of the pensioners of Punjab Government irrespective of the fact that the original home of the retiree is in a state other than Punjab or he has settled after retirement in or outside Punjab.**
- iv) Children/wards of persons who have settled in Punjab or had resided in Punjab for a period of atleast 5 years at any time prior to the date of submission of the application either in pursuit of a profession or holding of a job.
- v) Children/wards of persons who have held immovable property in Punjab for a period of 5 years, the property should be in the name of the parents/guardians or the candidate himself.
- ii) Persons who were born in Punjab and produced a certificate to that effect

Certificate to be issued by the Headmaster/ Principal of the Govt. and recognized Schools/Colleges concerned.

Certificate to be issued by respective Head of the Department

*Certificate to be issued by the Head of the Department of the Punjab and Haryana High Court.

PPO issued by the Accountant General, Punjab.

Certificate to be issued by the DC, ADC (R), ADC (D), SDM, GA to DC, DORG, DRO, EM, Tehsildar, Commissioners of Municipal Corporations of Amritsar, Jalandhar and Ludhiana.

DC, ADC(R), ADC(D), SDM, GA to DC, EM, DORG, Tehsildar/DRO based on copies of Jamabandi, Revenue Record, Municipal Record, Registered deeds or any other documents to the full satisfaction of the DC. As per category (iv) above.

2. For the purposes of uniformity for issuing the certificate of Residence in the case of various categories to be issued by the Competent Authorities, proformae have been prescribed which are enclosed herewith. After careful consideration, it has also been decided to delete the D.T.O. included among the certifying authorities against category (iv) & (vi) of the policy instructions dated 29.01.1996.
3. The receipt of this letter may please be acknowledged.

Sd/-
(Karam Chand Ahuja)
Deputy Secretary, Personnel

Copy of letter No.1/3/95-3PP-II/10361-63, dated 20.05.97 from the Joint Secretary, Personnel Government of Punjab, Department of Personnel and Administrative Reforms (Personnel Policies Branch II) to all Heads of Departments, etc., in the Punjab State.

Subject: Bonafide Resident of Punjab Guidelines for grant of Residence Certificate

With reference to letter No.1/3/95-3PII/9619, dated the 6th June, 1996 of this Department on the subject noted above and to say that keeping in view the hardship being faced by the Employees in getting the 'Residence Certificate' it has been decided to decentralize the powers of issuing the 'Residence Certificate' in process of the categories mentioned below:-

Categories:

- | | | |
|-----|---|--|
| ii) | Children/wards of | The Heads of the office shall be competent to issue the requisite certificate to the employees with the exception that in the case of head of Office, the Head of the Department shall be the Competent Authority to issue the certificate |
| a) | The employees of Punjab Government posted in or outside Punjab State or working on deputation having at least 3 years of service. | - do - |
| b) | the employees of Government of India posted in Chandigarh or in Punjab in connection with the affairs of the Punjab Government for a period of 3 years. | - do - |
| c) | the employees of State Government institutions/undertaking who are posted in Chandigarh or in Punjab in connection with the affairs of the Punjab Government for a period of 3 years. | - do - |
| d) | the employees having at least 3 years of service in autonomous bodies/companies in which Punjab Government has 20% or more shares. | - do - |

Copy of letter No.1/3/95-3PP-II/7332, dated 14th June, 1999

From: Chief Secretary to Government of Punjab to all the Heads of the department etc.
Subject: Issuance of certificate for the purpose of seeking admission to various educational/technical/professional institutions in the state and also for employment.

Sir,

It has been brought to the notice of Government that educational authorities and institutions prescribe various certificates regarding residence, SC/BC category and backward area etc. to be furnished by the students/candidates with the applications forms for entrance examinations or employment in the formats and by the authorities different from those prescribed by the Government departments. Cases have also been reported where the authorities concerned insist on retaining original certificates and refuse to accept the attested photo copies of the certificates. All this results in harassment and panic among the students/candidates and their parents/guardian, since they have to apply with such certificates to more than one authorities simultaneously and within a limited period. The lists of certificates required at the time of applying for CET/PMET/PMT and PAU are enclosed by way of illustration.

2. In order to overcome the difficulty mentioned above, it has been decided by the Government that following procedure has been decided by the Government that the following procedure shall be followed meticulously by all the educational and other authorities concerned:-

- i) Certificates issued in the format and by the authorities prescribed by the Government Departments shall be accepted as valid by all educational institutions and other authorities.
- ii) Where a number of authorities have been authorized to issue the certificates there shall be no insistence on issue of a certificate by any particular authority or by the highest authority indicated in the format.
- iii)(a) In case of entrance examinations, no certificate should be called for in the first instance alongwith the application form. It will be sufficient for the candidate seeking admission or other facility to indicate in the application form whether he/she belongs to any particular category entitling him/her to certain concessions or facility. Requisite certificates may be obtained only from the selected/wait listed candidates.
- iii)(b) To further simplify the procedure attested copies of the certificates only shall be retained and original certificates if required to be produced at the time of interview shall be returned immediately, thereafter.
- iv) Parents/guardian or candidates can also obtain SC certificates from the Head of the institution where the candidates has studied if the proof is available in the school records.
- v) The persons who are employed in Government of India or any other State Government are to be treated at par with the employees of the Government of Punjab in the matter of issue of Scheduled Caste certificate provided relevant Scheduled Caste certificate exists in their service record. The Scheduled Caste certificate in such will be issued by the respective Heads of Departments in the Proforma below:-

CERTIFICATE TO BE ISSUED BY THE RESPECTIVE HEAD OF THE DEPARTMENT

Certified that Shri _____ S/o Sh. _____ father/mother of Miss./Mr. _____ is an employee _____ of (State Govt. Institution/underworkings) the Government of Punjab and is working as _____. He is posted at Chandigarh/Punjab in connection with the Affairs of the Punjab Government for a period of past three years.

- vi) In case of freedom fighters, political sufferers terrorists/riot victims and migrations where the registers are maintained by DC office, the certificate may be issued by Deputy Commissioner/GA to DC/ADC.

These instructions shall come into force with immediate effect and shall be effective even where admission prospectus have already been printed following earlier instructions but entrance examination is yet to be hold or deadline for submission of forms is not yet over.

These instructions may be brought to the notice of all concerned for meticulous compliance.

The receipt of this letter may please be acknowledged.

Yours faithfully,

Sd/-

(Megh Raj)

Joint Secretary Personnel

Note: Even though due care has been taken to reproduce the above letters as published by the Govt., the University is not liable for any typographical error or any other mistake which may have crept in inadvertently.

SPECIMEN FORMS OF SOME CERTIFICATES TO BE ATTACHED
WHICHEVER APPLICABLE WITH EACH APPLICATION FORM

CERTIFICATE TO BE ISSUED BY THE PRINCIPAL/HEAD MASTER OF THE
GOVERNMENT/RECOGNIZED SCHOOL/COLLEGE CONCERNED IN CASE OF
CATEGORY (b) (i) (Annexure-V)

It is certified that Miss/Mr.....
D/o, S/o Sh.....has been a student of this School/College
for a period of.....years, from.....to
He/she left the School/College on.....

Dated:

Signature of Principal/Head Master of the
College/School
With Seal

CERTIFICATE TO BE ISSUED BY THE HEAD OF THE DEPARTMENT IN CASE
OF CATEGORY (b) (ii) (a) (Annexure-V)

Certified that Sh/Smt.....S/o, W/o Sh.....
is an employee of theof Punjab Government. He/she is working as
(Name of office)
.....and is posted at.....(Place of service),
w.e.f. (date of posting) to He/she has more than three years
service at his/her credit.

He/She is Father/Mother of _____
(Name of Candidate)

OR

Certified that Sh/Smt.....S/o W/o Sh.....
is an employee of the.....of Punjab Government.
(Name of office)
He/she is working as..... on deputation
with the.....and is posted at.....(Place of service),
w.e.f.(date of posting) to He/she has more than three
years service at his/her credit.

He/She is Father/Mother of _____
(Name of Candidate)

Place:

Head of the Department
(With Seal)

Dated:

CERTIFICATE TO BE ISSUED BY THE RESPECTIVE HEAD OF THE DEPARTMENT
IN THE CASE OF CATEGORY (b) (ii) (b) (Annexure-V)

Certified that Sh/Smt.....S/o W/o Sh.....
is an employee of Govt. of India and is working as.....He/she has been posted at
Chandigarh/Punjab w.e.f. (date of posting) to _____ in connection with the
affairs of Punjab Government for the at least past three years.

He/She is Father/Mother of _____
(Name of Candidate)

Dated: _____ Head of the Department
(With Seal)

CERTIFICATE TO BE ISSUED BY THE RESPECTIVE HEAD OF THE DEPARTMENT
IN CASE OF CATEGORY (b) (ii) (c) (Annexure-V)

Certified that Sh./Smt._____ S/o, W/o Sh_____ is an employee of
_____ Govt. of Punjab and is working as _____
(institution/undertaking)

He/she has been posted at Chandigarh/Punjab w.e.f._____ (date of posting) to _____ in
connection with the affairs of the Punjab Government for period of past three years.

He/She is Father/Mother of _____
(Name of Candidate)

Dated: _____ Head of the Department
(With Seal)

CERTIFICATE TO BE ISSUED BY THE HEAD OF THE AUTONOMOUS BODY
IN CASE OF CATEGORY (b) (ii) (d) (Annexure-V)

Certified that Sh./Smt _____ S/o W/o Sh_____ is an employee of
_____ (Name of the autonomous body).

He/she is working as _____ and is posted at _____
w.e.f. _____.

He/She is Father/Mother of _____
(Name of Candidate)

Dated: _____ Head of the Autonomous body
(With Seal)

CERTIFICATE TO BE ISSUED BY THE HEAD OF THE COMPANY
IN CASE OF CATEGORY (b) (ii) (d) (Annexure-V)

Certified that Sh./Smt _____ S/o W/o Sh _____ is an employee of _____ in which the Punjab Govt. has 20% or more shares.
(Name of the company)

He/she is working as _____ and is posted at _____
w.e.f. _____.

He/She is Father/Mother of _____
(Name of Candidate)

Dated: _____ Head of the company
(With Seal)

Category (b) (iii) Annexure-V

(iii) Children/wards of the pensioners of Punjab Govt. PPO issued by Account General Punjab irrespective of the fact that the original home of the retiree is in a state other than Punjab or he has settled after retirement in or outside Punjab.

Certified that Sh./Smt S/D/o is pensioner of Punjab Government and retired from the..... (name of the Department) is drawing pension vide PPO No.

He/She is Father/Mother of _____
(Name of Candidate)

Dated: _____ Head of the Department
(With Seal)

RESIDENCE CERTIFICATE TO BE ISSUED BY THE DC, ADC(R), ADC(D), SDM,
ASSISTANT COMMISSIONER GENERAL, DORG/DRO, EM, TEHSILDAR, COMMISSIONERS OF MUNICIPAL
CORPORATIONS OF AMRITSAR, JALANDHAR AND LUDHIANA
IN CASE OF CATEGORY - (b) (iv) Annexure-V

Certified that Sh./Smt _____ S/o W/o Sh. _____ has settled *in Punjab or has resided *in Punjab for a period of 5 years from _____ to _____. He is working as _____ (Name of profession Designation and job)
* Strike through whichever is not applicable.

He/She is Father/Mother of _____
(Name of Candidate)

Dated: _____ Signature of DC/ADC(R), ADC (D), SDM
ASSISTANT COMMISSIONER GENERAL, DORG/ DRO, EM, Tehsildar,
Commissioners of
Municipal Corporations of Amritsar, Jalandhar and Ludhiana.

RESIDENCE CERTIFICATE TO BE ISSUED BY THE DC, ADC(R), ADC(D), SDM,
ASSISTANT COMMISSIONER GENERAL, DORG/DRO, EM, TEHSILDAR, COMMISSIONERS OF MUNICIPAL
CORPORATIONS OF AMRITSAR, JALANDHAR AND LUDHIANA
IN CASE OF CATEGORY - (b) (v) *Annexure-V*

Certified that Sh./Smt _____ S/o W/o Sh. _____
holds immovable property at _____ in the state of Punjab for the
(Place and District)
past _____ years.
He/She is Father/Mother of _____
(Name of Candidate)

Dated: _____

Signature of DC, ADC(R), ADC (D)
SDM, ASSISTANT COMMISSIONER GENERAL, DORG/DRO, EM,
Tehsildar, based on copies of Jamabandi, Revenue Record,
Municipal Record, Registered deed or any other documents to
full satisfaction of the DC

RESIDENCE CERTIFICATE TO BE ISSUED BY THE DC, ADC (R), ADC (D),
SDM, ASSISTANT COMMISSIONER GENERAL, D.O.R.G./D.R.O., E.M., TEHSILDAR, COMMISSIONERS OF MUNICIPAL
CORPORATION OF AMRITSAR, JALANDHAR AND LUDHIANA
IN CASE OF CATEGORY - (b) (vi) **Annexure-V**

Certified that Miss/Mr. _____ D/o,S/o Sh. _____ resident
(Name of Candidate)
of _____ was born in Punjab as per birth certificate.

Dated: _____

Signature of DC/ADC(R), ADC (D)
SDM, ASSISTANT COMMISSIONER GENERAL,
DORG/DRO, EM, Tehsildar, Commissioners of
Municipal Corporations of Amritsar, Jalandhar and
Ludhiana.

TENTATIVE LIST OF COLLEGES/SEATS**Medical Colleges**

S.N.	Name of the College	No. of Seats	Remarks
1 *	Guru Gobind Singh Medical College, Sadiq Road, Faridkot	50 to 100	Recognized for 50 seats Permission towards enhancement of seats from MCI/Govt. of India is awaited
2	Govt. Medical College, Majitha Road, Amritsar	150	Recognized
3 *	Govt. Medical College, Sangrur Road, Patiala	150 to 200	Recognized for 150 seats Permission towards enhancement of seats from MCI/Govt. of India is awaited
4	Dayanand Medical College, Civil Lines, Ludhiana	70	Recognized
5 *	Sri Guru Ram Das Institute of Medical Sciences & Research, VPO Vallah, Distt. Amritsar	100 to 150	Recognized for 50 seats Recommended for recognition for increase of seats from 50-100 Permission towards enhancement of seats (100 to 150) from MCI/Govt. of India is awaited
6	Gian Sagar Medical College & Hospital, Village Ram Nagar, Banur, Distt. Patiala	100	Recognized
7 **	Punjab Institute of Medical Sciences, Garha Road, Jalandhar	150	Permission from MCI/Govt. of India is awaited
8 **	Chintupurni Medical College & Hospital, Village Hara Tika Chakkar, Dharan Kalan, Tehsil Pathankor, Distt. Gurdaspur	150	Permission from MCI/Govt. of India is awaited

* Renewal of permission from Medical Council of India/Govt. of India, towards enhancement of seats for the session 2015-16 is awaited.

** Renewal of permission from Medical Council of India/Govt. of India to admit batch in 2015-16 is awaited.

Dental Colleges

S.N.	Name of the College	No. of Seats	Remarks
1	Govt. Dental College, Amritsar	40	Recognized
2	Govt. Dental College, Sangrur Road, Patiala	40	Recognized
3	Dasmesh Institute of Research & Dental Sciences, Talwandi Road, Faridkot	100	Recognized
4	Sri Guru Ram Das Institute of Dental Sciences & Research, G.T. Road, Amritsar	60	Recognized
5	Baba Jaswant Singh Dental College Hospital & Research Institute, Sector 40, Urban Estate, Ludhiana	100	Recognized
6	Guru Nanak Dev Dental College & Research Institute, Patiala Bathinda Road, Sunam-148028	100	Recognized
7	Desh Bhagat Dental College & Hospital, Kotkapura Road, Muktsar	100	Recognized
8	National Dental College, VPO Gulabgarh, Tehsil Dera Bassi, Distt. Patiala	100	Recognized
9	Luxmi Bai Institute of Dental Sciences & Hospital, Sirhind Road, VPO Baran, Distt. Patiala	100	Recognized
10	Genesis Institute of Dental Sciences & Research (Dental College & Hospital), Ferozepur-Moga Road, Ferozepur	100	Recognized
11	Gian Sagar Dental College, Village Ram Nagar, Banur, Distt. Patiala	100	Recognized

12 *	Shaheed Kartar Singh Sarabha Dental College, VPO Sarabha, Distt. Ludhiana	50	Permission of DCI/Govt. of India is Awaited
13 *	Rayat-Bahra Dental College, VPO Sahauran, Distt. Mohali	100	Permission of DCI/Govt. of India is Awaited
14 *	Sri Sukhmani Dental College & Hospital, Derabassi, Distt. Mohali	100	Permission of DCI/Govt. of India is Awaited

* Renewal of permission from Dental Council of India/Govt. of India to admit batch in 2015-16 is awaited.

Note: (a) Distribution of seats will be as per Punjab Government Notification
(b) **The List of eligible colleges/seats may increase/decrease subject to the orders of Hon'ble Courts/MCI/DCI/Governments. The final list will be displayed at the time of online counselling.**

DECLARATION - The information provided in this prospectus is believed to be correct at the time of its publication. While every effort has been made to ensure that the information provided in this prospectus is accurate and up-to-date. University is not responsible for any error(s) or omission(s) no matter how they are caused.

BABA FARID UNIVERSITY OF HEALTH SCIENCES

SIDE - 1

Serial No.

OMR ANSWER SHEET



USE BLACK FINE TIP BALL PEN ONLY

PLEASE FILL UP ALL THE RELEVANT COLUMNS ON THIS PAGE.

Those candidates who do not darken fifth oval in case of unattempted question introduced for security shall be getting deduction of marks @ one mark per question left in which all the five ovals have been left blank.

This Answer Sheet is designed for computer evaluation. Therefore if you do not follow the instructions given below, it may make evaluation by the computer difficult. Any resultant loss to the candidate on the above account, i.e. not following the instructions completely, shall be of the candidate only and the university shall not be responsible in any way to the same.

THUMB IMPRESSION OF THE CANDIDATE

PLEASE FILL UP ALL THE RELEVANT COLUMNS ON THE PAGE.

ROLL NO. (in figures)

QUESTION BOOKLET SET

QUESTION BOOKLET NO.

ROLL NO. (in words)

It is certified that I am the person whose Name & Roll No. appear as above.

FULL SIGNATURES OF THE CANDIDATE (in running hand)

FULL SIGNATURES OF THE SUPERVISOR
(after verification of Roll No. & Question Booklet No.)

FULL SIGNATURES OF THE INVIGILATOR
(after verifying Question Booklet No. and Roll Number)

INSTRUCTIONS FOR FILLING SIDE - 2

1. Use Black Fine Tip Ball Pen only. Any other writing instruments shall invalidate the answer.
2. For marking response, darken the appropriate oval in the choice as shown below.
3. Fill only one response for each question. Filling more than one response shall be taken as wrong answer.
4. Do not make any correction on this sheet.
5. Read carefully the instructions in the question booklet.
6. Do not fold the response sheet.
7. Rough work may only be done on the vacant space available in the question booklet.
8. Darken fifth oval 'E' in case of unattempted question.
9. There will be no negative marking. But not darkening of unattempted question shall be getting deduction of one mark per question if all the five ovals are left blank.

METHOD FOR DARKENING THE BUBBLES

Correct Marking



Wrong Marking



Wrong Marking



Wrong Marking



SPACE FOR STAMP SUPPLIED

DATE :

