

Signature and Name of Invigilator

PAPER - I

1. (Signature) _____

(Name) _____

2. (Signature) _____

(Name) _____

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Test Booklet Series

B

Time : 1¼ hours]

OMR Sheet No. : _____
(To be filled by the Candidate)Roll No. _____
(In figures as per admission card)Roll No. _____
(In words)

[Maximum Marks : 100

Number of Pages in this Booklet : 24

Number of Questions in this Booklet : 60

Instructions for the Candidates

- Write your roll number in the space provided on the top of this page.
- This paper consists of sixty (60) multiple-choice type of questions, out of which the candidate would be required to answer any fifty (50) questions. In the event of candidate attempting more than fifty questions, the first fifty questions attempted by the Candidate would be evaluated.
- At the commencement of examination, the question booklet will be given to you. In the first 5 minutes, you are requested to open the booklet and compulsorily examine it as below :
 - To have access to the Question Booklet, tear off the paper seal/polythene bag on the booklet. Do not accept a booklet without sticker-seal/without polythene bag and do not accept an open booklet.
 - Tally the number of pages and number of questions in the booklet with the information printed on the cover page. Faulty booklets due to pages/questions missing or duplicate or not in serial order or any other discrepancy should be got replaced immediately by a correct booklet from the invigilator within the period of 5 minutes. Afterwards, neither the Question Booklet will be replaced nor any extra time will be given.
 - After this verification is over, the Test Booklet Number should be entered on the OMR Sheet and the OMR Sheet Number should be entered on this Test Booklet.
 - The Series of this booklet is **B**, make sure that the Series printed on OMR Sheet is same as that on this booklet. In case of discrepancy in Series, the candidate should immediately report the matter to the Invigilator for replacement of the Test Booklet/OMR Sheet.
- Each item has four alternative responses marked (1), (2), (3) and (4). You have to darken the circle as indicated below on the correct response against each item.
Example : ① ② ● ④ where (3) is the correct response.
- Your responses to the items are to be indicated in the OMR Sheet given inside the Booklet only. If you mark your response at any place other than in the circle in the OMR Sheet, it will not be evaluated.
- Read instructions given inside carefully.
- Rough Work is to be done in the end of this booklet.
- If you write your Name, Roll Number, Phone Number or put any mark on any part of the OMR Sheet, except for the space allotted for the relevant entries, which may disclose your identity, or use abusive language or employ any other unfair means, such as change of response by scratching or using white fluid, you will render yourself liable to disqualification.
- You have to return the original OMR Sheet to the invigilators at the end of the examination compulsorily and must not carry it with you outside the Examination Hall. You are however, allowed to carry original question booklet and duplicate copy of OMR Sheet on conclusion of examination.
- Use only Blue/Black Ball point pen.
- Use of any calculator or log table etc., is prohibited.
- There are no negative marks for incorrect answers.
- In case of any discrepancy in the English and Hindi versions, English version will be taken as final.

परीक्षार्थियों के लिए निर्देश

- इस पृष्ठ के ऊपर नियत स्थान पर अपना रोल नम्बर लिखिए।
- इस प्रश्न-पत्र में साठ (60) बहुविकल्पीय प्रश्न हैं, जिनमें से उम्मीदवार को किसी भी पचास (50) प्रश्न का उत्तर देना होगा। उम्मीदवार द्वारा पचास से अधिक प्रश्नों का उत्तर देने पर उम्मीदवार द्वारा दिये गये प्रथम पचास प्रश्नों का मूल्यांकन किया जायेगा।
- परीक्षा प्रारम्भ होने पर, प्रश्न-पुस्तिका आपको दे दी जायेगी। पहले पाँच मिनट आपको प्रश्न-पुस्तिका खोलने तथा उसकी निम्नलिखित जाँच के लिए दिये जायेंगे, जिसकी जाँच आपको अवश्य करनी है :
 - प्रश्न-पुस्तिका खोलने के लिए पुस्तिका पर लगी कागज की सील/पोलिथीन बैग को फाड़ लें। खुली हुई या बिना स्टीकर-सील/बिना पोलिथीन बैग की पुस्तिका स्वीकार न करें।
 - कवर पृष्ठ पर छपे निर्देशानुसार प्रश्न-पुस्तिका के पृष्ठ तथा प्रश्नों की संख्या को अच्छी तरह चैक कर लें कि ये पूरे हैं। दोषपूर्ण पुस्तिका जिनमें पृष्ठ/प्रश्न कम हों या दुबारा आ गये हों या सीरियल में न हों अर्थात् किसी भी प्रकार की त्रुटिपूर्ण पुस्तिका स्वीकार न करें तथा उसी समय उसे लौटाकर उसके स्थान पर दूसरी सही प्रश्न-पुस्तिका ले लें। इसके लिए आपको पाँच मिनट दिये जायेंगे। उसके बाद न तो आपकी प्रश्न-पुस्तिका वापस ली जायेगी और न ही आपको अतिरिक्त समय दिया जायेगा।
 - इस जाँच के बाद प्रश्न-पुस्तिका का नंबर OMR पत्रक पर अंकित करें और OMR पत्रक का नंबर इस प्रश्न-पुस्तिका पर अंकित कर दें।
 - इस प्रश्न-पुस्तिका का सीरीज **B** है। यह सुनिश्चित कर लें कि इस प्रश्न-पुस्तिका का सीरीज, OMR पत्रक के सीरीज से मिलता है। अगर सीरीज भिन्न हो तो परीक्षार्थी दूसरी समान सीरीज वाली प्रश्न-पुस्तिका/OMR पत्रक बदलने के लिए निरीक्षक को तुरंत सूचित करें।
- प्रत्येक प्रश्न के लिए चार उत्तर विकल्प (1), (2), (3) तथा (4) दिये गये हैं। आपको सही उत्तर के वृत्त को पेन से भरकर काला करना है जैसा कि नीचे दिखाया गया है।
उदाहरण : ① ② ● ④ जबकि (3) सही उत्तर है।
- प्रश्नों के उत्तर केवल प्रश्न पुस्तिका के अन्दर दिये गये OMR पत्रक पर ही अंकित करने हैं। यदि आप OMR पत्रक पर दिये गये वृत्त के अलावा किसी अन्य स्थान पर उत्तर चिह्नित करते हैं, तो उसका मूल्यांकन नहीं होगा।
- अन्दर दिये गये निर्देशों को ध्यानपूर्वक पढ़ें।
- कच्चा काम (Rough Work) इस पुस्तिका के अन्तिम पृष्ठ पर करें।
- यदि आप OMR पत्रक पर नियत स्थान के अलावा अपना नाम, रोल नम्बर, फोन नम्बर या कोई भी ऐसा चिह्न जिससे आपकी पहचान हो सके, अंकित करते हैं अथवा अभद्र भाषा का प्रयोग करते हैं, या कोई अन्य अनुचित साधन का प्रयोग करते हैं, जैसे कि अंकित किये गये उत्तर को मिटाना या सफेद स्याही से बदलना तो परीक्षा के लिये अयोग्य घोषित किये जा सकते हैं।
- आपको परीक्षा समाप्त होने पर मूल OMR पत्रक निरीक्षक महोदय को लौटाना आवश्यक है और परीक्षा समाप्ति के बाद उसे अपने साथ परीक्षा भवन से बाहर न लेकर जायें। हालांकि आप परीक्षा समाप्ति पर मूल प्रश्न-पुस्तिका तथा OMR पत्रक की डुप्लीकेट प्रति अपने साथ ले जा सकते हैं।
- केवल नीले/काले बाल प्वाइंट पेन का ही इस्तेमाल करें।
- किसी भी प्रकार का संगणक (कैलकुलेटर) या लाग टेबल आदि का प्रयोग वर्जित है।
- गलत उत्तरों के लिए कोई नकारात्मक अंक नहीं हैं।
- यदि अंग्रेजी या हिंदी विवरण में कोई विसंगति हो, तो अंग्रेजी विवरण अंतिम माना जाएगा।



PAPER - I

- Note :**
- This paper contains **Sixty (60)** multiple choice questions, each question carrying **two (2)** marks.
 - Candidate is expected to answer **any Fifty (50)** questions.
 - In case more than **Fifty (50)** questions are attempted, only the **first Fifty (50)** questions will be evaluated.

1. Among the following statements **two** are contradictory to each other. Select the correct code that represents them :

Statements :

- (a) All poets are philosophers.
- (b) Some poets are philosophers.
- (c) Some poets are not philosophers.
- (d) No philosopher is a poet.

Codes :

- (1) (a) and (d) (2) (a) and (c) (3) (b) and (c) (4) (a) and (b)

2. Which of the following is **not** a principle of effective communication ?

- (1) Participation of the audience (2) One-way transfer of information
- (3) Strategic use of grapevine (4) Persuasive and convincing dialogue

3. The next term in the series is :

2, 5, 9, 19, 37, ?

- (1) 75 (2) 78 ✓ (3) 80 (4) 73

4. The term 'grapevine' is also known as :

- (1) Informal communication (2) Upward communication
- (3) Horizontal communication (4) Downward communication

5. In communication, the language is :

- (1) Intrapersonal (2) The symbolic code
- (3) The non-verbal code (4) The verbal code

6. One day Prakash left home and walked 10 km towards south, turned right and walked 5 km, turned right and walked 10 km and turned left and walked 10 km. How many km will he have to walk to reach his home straight ?

- (1) 20 (2) 15 (3) 30 (4) 10



7. Which of the codes given below contains only the **correct** statements ? Select the code :

Statements :

- (a) Venn diagram represents the arguments graphically.
- (b) Venn diagram can enhance our understanding.
- (c) Venn diagram may be called valid or invalid.
- (d) Venn diagram is clear method of notation.

Codes :

- (1) (a), (b) and (d)
- (2) (b), (c) and (d)
- (3) (a), (c) and (d)
- (4) (a), (b) and (c)

8. Which of the following are the characteristic features of communication ?

- (a) Communication involves exchange of ideas, facts and opinions.
- (b) Communication involves both information and understanding.
- (c) Communication is a continuous process.
- (d) Communication is a circular process.

Select the correct answer from the codes given below :

- (1) (a), (b) and (d)
- (2) (b), (c) and (d)
- (3) (a), (b), (c) and (d)
- (4) (a), (b) and (c)

9. In an examination 10,000 students appeared. The result revealed the number of students who have :

passed in all five subjects	=	5583
passed in three subjects only	=	1400
passed in two subjects only	=	1200
passed in one subject only	=	735
failed in English only	=	75
failed in Physics only	=	145
failed in Chemistry only	=	140
failed in Mathematics only	=	200
failed in Bio-science only	=	157

The number of students passed in at least four subjects is :

- (1) 6900
- (2) 7300
- (3) 7900
- (4) 6300



10. A deductive argument is invalid if :
- (1) Its premises are true but its conclusion is false
 - (2) Its premises are false but its conclusion is true
 - (3) Its premises and conclusions are all true
 - (4) Its premises and conclusions are all false
11. In certain code MATHURA is coded as JXQEROX. The code of HOTELS will be :
- (1) ELQBIP
 - (2) LEBIQP
 - (3) ELIPQB
 - (4) LEQIBP
12. If we want to seek new knowledge of facts about the world, we must rely on reason of the type :
- (1) Deductive
 - (2) Demonstrative
 - (3) Physiological
 - (4) Inductive
13. When the purpose of a definition is to explain the use or to eliminate ambiguity the definition is called :
- (1) Theoretical
 - (2) Lexical
 - (3) Persuasive
 - (4) Stipulative
14. **Assertion (A)** : Formal communication tends to be fast and flexible.
Reason (R) : Formal communication is a systematic and orderly flow of information.
- (1) Both (A) and (R) are correct, but (R) is not correct explanation of (A)
 - (2) (A) is correct but, (R) is false
 - (3) (A) is false but, (R) is correct
 - (4) Both (A) and (R) are correct and (R) is correct explanation of (A)
15. At present a person is 4 times older than his son and is 3 years older than his wife. After 3 years the age of the son will be 15 years. The age of the person's wife after 5 years will be :
- (1) 48
 - (2) 45
 - (3) 50
 - (4) 42
16. A girl introduced a boy as the son of the daughter of the father of her uncle. The boy is related to the girl as :
- (1) Uncle
 - (2) Nephew
 - (3) Son
 - (4) Brother



Question numbers 17 to 22 are based on the tabulated data given below :

A company has 20 employees with their age (in years) and salary (in thousand rupees per month) mentioned against each of them :

S.No.	Age (in years)	Salary (in thousand rupees per month)	S.No.	Age (in years)	Salary (in thousand rupees per month)
1.	44	35	11.	33	30
2.	32	20	12.	31	35
3.	54	45	13.	30	35
4.	42	35	14.	37	40
5.	31	20	15.	44	45
6.	53	60	16.	36	35
7.	42	50	17.	34	35
8.	51	55	18.	49	50
9.	34	25	19.	43	45
10.	41	30	20.	45	50

17. Classify the data of age of each employee in class interval of 5 years. Which class interval of 5 years has the maximum average salary ?
 (1) 40 - 45 years (2) 45 - 50 years (3) 50 - 55 years (4) 35 - 40 years
18. What is the average salary (in thousand per month) in the age group 40 - 50 years ?
 (1) 42.5 (2) 40.5 (3) 36.5 (4) 35
19. What is the fraction (%) of employees getting salary \geq 40,000 per month ?
 (1) 50% (2) 35% (3) 32% (4) 45%
20. What is the fraction of employees getting salary less than the average salary of all the employees ?
 (1) 50% (2) 55% (3) 47% (4) 45%
21. What is the average age of the employees ?
 (1) 38.6 years (2) 47.2 years (3) 45.3 years (4) 40.3 years
22. What is the frequency (%) in the class interval of 30 - 35 years ?
 (1) 25% (2) 30% (3) 35% (4) 20%



23. Which is an instant messenger that is used for chatting ?
(1) MAC (2) Microsoft Office (3) Google Talk (4) Altavista
24. In the recently launched Air Quality Index in India, which of the following pollutants is **not** included ?
(1) Fine particulate matter (2) Ozone
(3) Chlorofluorocarbons (4) Carbon monoxide
25. Which of the following represents one billion characters ?
(1) Megabyte (2) Gigabyte (3) Terabyte (4) Kilobyte
26. The South Asia University is situated in the city of :
(1) Dhaka (2) New Delhi (3) Kathmandu (4) Colombo
27. Which one of the following represents the binary equivalent of the decimal number 25 ?
(1) 01101 (2) 11001 (3) 11011 (4) 10101
28. Which of the following is **not** an output device ?
(1) Speaker (2) Monitor (3) Keyboard (4) Printer
29. Two earthquakes A and B happen to be of magnitude 5 and 6 respectively on Richter Scale. The ratio of the energies released E_B/E_A will be approximately :
(1) ~ 16 (2) ~ 32 (3) ~ 64 (4) ~ 8
30. The factors which are most important in determining the impact of anthropogenic activities on environment are :
(1) Population, affluence per person and the technology used for exploiting resources
(2) Atmospheric conditions, population and forest cover
(3) Population, forest cover and land available per person
(4) Population, affluence per person, land available per person



31. The session of the parliament is summoned by :
- (1) The Prime Minister
 - (2) The Speaker of the Lok Sabha
 - (3) The Speaker of the Lok Sabha and the Chairman of the Rajya Sabha
 - (4) The President
32. The Gross Enrolment Ratio (GER) in institutions of higher education in India at present (2015) is about :
- (1) 12 percent
 - (2) 19 percent
 - (3) 23 percent
 - (4) 8 percent
33. Which of the following combinations represent renewable natural resources ?
- (1) Clean air, phosphates and biological diversity
 - (2) Fishes, fertile soil and fresh water
 - (3) Oil, forests and tides
 - (4) Fertile soil, fresh water and natural gas
34. The total number of central universities in India in April 2015 was :
- (1) 14
 - (2) 27
 - (3) 43
 - (4) 08
35. Civil Service Day is celebrated in India on :
- (1) 24th April
 - (2) 21st June
 - (3) 7th July
 - (4) 21st April
36. The University Grants Commission was established with which of the following aims ?
- (a) Promotion of research and development in higher education
 - (b) Identifying and sustaining institutions of potential learning
 - (c) Capacity building of teachers
 - (d) Providing autonomy to each and every higher educational institution in India
- Select the correct answer from the codes given below :
- (1) (a), (b) and (c)
 - (2) (b), (c) and (d)
 - (3) (a), (b) and (d)
 - (4) (a), (b), (c) and (d)



37. Encoding or scrambling data for transmission across a network is known as :
- (1) Detection (2) Encryption (3) Decryption (4) Protection
38. India's contribution to total global carbon dioxide emissions is about :
- (1) ~ 6% (2) ~ 10% (3) ~ 15% (4) ~ 3%
39. In which of the countries per capita use of water is maximum ?
- (1) European Union (2) China
(3) India (4) USA
40. Which of the following is **not** open source software ?
- (1) Fedora Linux (2) Open office
(3) Apache HTTP server (4) Internet explorer
41. Which of the following statements regarding the meaning of research are correct ?
- (a) Research refers to a series of systematic activity or activities undertaken to find out the solution of a problem.
(b) It is a systematic, logical and an unbiased process wherein verification of hypothesis data analysis, interpretation and formation of principles can be done.
(c) It is an intellectual enquiry or quest towards truth.
(d) It leads to enhancement of knowledge.
- Select the correct answer from the codes given below :
- (1) (b), (c) and (d) (2) (a), (c) and (d)
(3) (a), (b), (c) and (d) (4) (a), (b) and (c)
42. Achievement tests are commonly used for the purpose of :
- (1) Selecting candidates for a course
(2) Identifying strengths and weaknesses of learners
(3) Assessing the amount of learning after teaching
(4) Making selections for a specific job
43. Which of the following is the highest level of cognitive ability ?
- (1) Understanding (2) Analysing (3) Evaluating (4) Knowing



44. The conclusions/findings of which type of research cannot be generalized to other situations ?
- (1) Descriptive Research (2) Experimental Research
(3) Causal Comparative Research (4) Historical Research
45. A good teacher is one who :
- (1) explains concepts and principles
(2) gives printed notes to students
(3) inspires students to learn
(4) gives useful information
46. Which of the following steps are required to design a questionnaire ?
- (a) Writing primary and secondary aims of the study.
(b) Review of the current literature.
(c) Prepare a draft of questionnaire.
(d) Revision of the draft.
- Select the correct answer from the codes given below :
- (1) (a), (c) and (d) (2) (b), (c) and (d)
(3) (a), (b), (c) and (d) (4) (a), (b) and (c)
47. "Male and female students perform equally well in a numerical aptitude test." This statement indicates a :
- (1) null hypothesis (2) directional hypothesis
(3) statistical hypothesis (4) research hypothesis
48. Jean Piaget gave a theory of cognitive development of humans on the basis of his :
- (1) Applied Research (2) Action Research
(3) Evaluation Research (4) Fundamental Research



49. Which of the following statements about teaching aids are correct ?

- (a) They help in retaining concepts for longer duration.
- (b) They help students learn better.
- (c) They make teaching learning process interesting.
- (d) They enhance rote learning.

Select the correct answer from the codes given below :

- (1) (a), (b) and (c)
- (2) (b), (c) and (d)
- (3) (a), (b) and (d)
- (4) (a), (b), (c) and (d)

50. A good thesis writing should involve :

- (a) reduction of punctuation and grammatical errors to a minimum.
- (b) careful checking of references.
- (c) consistency in the way the thesis is written.
- (d) a clear and well written abstract.

Select the correct answer from the codes given below :

- (1) (a), (b) and (c)
- (2) (a), (b) and (d)
- (3) (b), (c) and (d)
- (4) (a), (b), (c) and (d)

51. Which of the following factors does **not** impact teaching ?

- (1) Class room activities that encourage learning
- (2) Socio-economic background of teachers and students
- (3) Learning through experience
- (4) Teacher's knowledge

52. Techniques used by a teacher to teach include :

- (a) Lecture
- (b) Interactive lecture
- (c) Group work
- (d) Self study

Select the correct answer from the codes given below :

- (1) (a), (b), (c) and (d)
- (2) (b), (c) and (d)
- (3) (a), (b) and (d)
- (4) (a), (b) and (c)



Read the following passage carefully and answer questions 53 to 58.

Story telling is not in our genes. Neither it is an evolutionary history. It is the essence of what makes us Human.

Human beings progress by telling stories. One event can result in a great variety of stories being told about it. Sometimes those stories differ greatly. Which stories are picked up and repeated and which ones are dropped and forgotten often determines how we progress. Our history, knowledge and understanding are all the collections of the few stories that survive. This includes the stories that we tell each other about the future. And how the future will turn out depends partly, possibly largely, on which stories we collectively choose to believe.

Some stories are designed to spread fear and concern. This is because some story-tellers feel that there is a need to raise some tensions. Some stories are frightening, they are like totemic warnings : "Fail to act now and we are all doomed." Then there are stories that indicate that all will be fine so long as we leave everything upto a few especially able adults. Currently, this trend is being led by those who call themselves "rational optimists". They tend to claim that it is human nature to compete and to succeed and also to profit at the expense of others. The rational optimists however, do not realize how humanity has progressed overtime through amiable social networks and how large groups work in less selfishness and in the process accommodate rich and poor, high and low alike. This aspect in story-telling is considered by the 'Practical Possibles', who sit between those who say all is fine and cheerful and be individualistic in your approach to a successful future, and those who ordain pessimism and fear that we are doomed.

What the future holds for us is which stories we hold on to and how we act on them.

Answer the following questions :

53. Our knowledge is a collection of :

- (1) some stories that we remember
- (2) a few stories that survive
- (3) some important stories
- (4) all stories that we have heard during our life-time

54. How the future will turn out to be, depends upon the stories ?

- (1) Which are repeatedly narrated
- (2) Designed to spread fear and tension
- (3) Designed to make prophecy
- (4) We collectively choose to believe in



55. Humans become less selfish when :
- (1) they listen to frightening stories (2) they listen to cheerful stories
(3) they work in solitude (4) they work in large groups
56. 'Practical Possibles' are the ones who :
- (1) are doom-mongers (2) are self-centred
(3) are cheerful and carefree (4) follow Midway Path
57. Story telling is :
- (1) a science (2) in our genes
(3) the essence of what makes us human (4) an art
58. Rational optimists :
- (a) Look for opportunities.
(b) Are sensible and cheerful.
(c) Are selfishly driven.
- Identify the correct answer from the codes given below :
- (1) (a) only (2) (a) and (b) only
(3) (b) and (c) only (4) (a), (b) and (c)
59. Effectiveness of communication can be traced from which of the following ?
- (a) Attitude surveys
(b) Performance records
(c) Students attendance
(d) Selection of communication channel
- Select the correct answer from the codes given below :
- (1) (a), (b) and (c) (2) (b), (c) and (d)
(3) (a), (b) and (d) (4) (a), (b), (c) and (d)
60. Inductive reasoning is grounded on :
- (1) Unity of nature (2) Uniformity of nature
(3) Harmony of nature (4) Integrity of nature

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