OPENNET - VIII: Entrance Test for B.Sc. (Nautical Science)

June, 2008

Total No. of Questions = 180

Time: 3 Hours

- All questions are compulsory.
- Use of calculator is not allowed. Rough work may be done in the space provided at the back of the Test booklet.
- The Test booklet has the following 6 tests:

Tests	No. of Questions	Marks
nol – English	30	30
II – General Knowledge	30	30
III – Reasoning Aptitude	30	30
IV – Mathematics	30	30
V – Physics	30	30
VI – Chemistry	30	30

Read the instructions given on the OMR Answer Sheet carefully before you start.

HOW TO FILL UP THE INFORMATION ON THE HUTRANCE TEST OMR ANSWER SHEET

While filling up the OMR Answer Sheet, you should follow the following guidelines:

- 1. Write your complete Roll Number. This should correspond to the roll number already supplied to you. Also write your correct name, address with pin code in the space provided, in ink. Put your signatures on the Answer Sheet with date, in ink. Ensure that the Invigilator in your examination hall also puts his signatures with date on the OMR Answer Sheet at the space provided. You should use HB pencil to mark the answers of the questions on the OMR Answer Sheet.
- 2. Do not make any stray marks on the OMR Answer Sheet.
- 3. Write correct information in numerical digits in Roll No., Programme Code, Date and Month and Examination Centre Code Columns. The column of Course Code should be left blank. The corresponding circle should be dark enough and should be filled in completely.
- 4. Each question is followed by four probable answers which are numbered 1, 2, 3 and 4. You should select and show only one answer to each question considered by you as the most appropriate or the correct answer. Select the most appropriate answer. Then by using HB pencil, blacken the circle bearing the correct answer number against the serial number of the question. If you find that answer to any question is none of the four alternatives given under the question you should darken the circle '0'.
- 5. If you wish to change your answer, ERASE completely the already darkened circle by using a good quality eraser and then blacken the circle bearing your revised answer number. If incorrect answer is not erased completely, smudges will be left on the erased circle and the question will be read as having two answers by the Optical Mark Reader (OMR) and will be ignored for giving any credit.
- 6. No credit will be given if more than one answer is given for one question. Therefore, you should select the most appropriate answer.
- 7. You should not spend too much time on any one question. If you find any particular question difficult, leave it and go to the next. If you have time left after answering all the questions, you may go back to the unanswered ones.
- 8. There is no negative marking for wrong answers.

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GENERAL INSTRUCTIONS

- 1. Mobile Phones, calculators, books, slide-rules, foot rulers, note-books or written notes, etc. are not allowed inside the examination hall.
- 2. You should follow the instructions given by the Centre Superintendent, observers and by the Invigilators at the examination venue. If you violate the instructions you will be disqualified.
- 3. Any candidate found copying or receiving or giving assistance in the examination will be disqualified.
- 4. The Test Booklet and the OMR Answer Sheet would be supplied to you by the Invigilators. After the exam is over, you should hand over the OMR Answer Sheet to the Invigilator before leaving the examination hall. However, any candidate leaving the examination hall before the completion of 3 hours must hand over the OMR Answer Sheet as well as the Test Booklet to the Invigilator. Any candidate who does not follow these instructions will be disqualified.
- 5. Candidates arriving late will not be permitted to enter the examination hall. The reporting time is 9.15 A.M. The examination will start at 10.00 A.M. and will be over at 1.00 P.M.
- 6. All rough work is to be done on the test booklet itself and not on any other paper. Scrap paper is not permitted. For arriving at answers you may work in the margins, make some markings or underline in the test booklet itself.
- 7. The University reserves the right to cancel scores of any candidate who impersonates or uses malpractices. The examination is conducted under uniform conditions. The University would also follow a procedure to verify the validity of scores of all examinees uniformly. If there is substantial indication that your performance is not genuine, the University may cancel your score.

THE INTE

ENGLISH

Directions for Questions No. 1 to 6: Read the passage given below and answer the questions given at the end of the passage, on the basis of the contents of the passage.

Her father, Edward Moulton Barrett, was, as Elizabeth later, wrote, a very peculiar person. "Heir to a fortune, educated at Harrow and Cambridge, he was nevertheless a complete domestic tyrant." After bearing him twelve children, his gentle wife had little strength left for struggle against him, and the children never dared oppose his wishes:

Yet, Elizabeth's childhood was happy. She romped and studied with her eldest brother, learnt Greek and French, read widely, and wrote poetic tragedies. Her own tragedy began at fifteen with a cough and an injury to her back, which resulted in ingreasingly bad health. Then her mother dieds.

Four years later, her father decided to sell the country home. The large family moved from house to house until her father bought No. 50 Wimpole Street. There Elizabeth's health grew worse, and she became a creature of the shadows and silence.

As the years passed, the family grew used to her withdrawn life. She had a certain independence, for an uncle had left her a small income. But her brothers and sisters were all at the mercy of Mr. Barrett's harsh rules, which hung over the household like thunder in heavy weather. Chief among them was the absolute refusal to let his daughters marry. He prevented the marriage of Elizabeth's gay, dance-loving sister Henrietta, and the scenes that followed broke Elizabeth's heart. Yet she remained devoted to her father. It was a devotion that served to strengthen the walls of her prison.

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Lizabeth's father was a complete domestic tyrant implies of the liver some

- (1) that he was fond of his children
- (2) that he helped his wife with the household duties
- (3) that he ruled like a cruel dictator
- (4) that he was a stern and disciplined head of the family

2. In spite of everything, Elizabeth's childhood was happy because

- (1) her father was kind to her
- (2) her mother was alive
- (3) she had some intellectual interests and was healthy
- (4) her illness had not yet crippled her

- 3. What broke Elizabeth's heart?
 - (1) Her father's refusal to let his daughters marry
 - (2) Her father's refusal to let her sister Henrietta marry
 - (3) Her illness which prevented her from getting married
 - (4) The unpleasantness that followed her father's refusal to let her sister marry
- 4. Elizabeth's own tragedy began when
 - (1) she became a creature of the shadows and silence
 - (2) her father bought a new house at No. 50 Wimpole Street
 - (3) she was fifteen and had an injury to her back
 - (4) her health grew worse
- 5. Explain the idiomatic expression: 'to break one's heart'.
 - (1) to become sorrowful
 - (2) to feel weak and uneasy
 - (3) to get angry
 - (4) to crush with grief
- 6. Explain: 'a creature of the shadows and silence'.
 - (1) a lonely person
 - (2) a secluded existence, out-of-touch with the world around her
 - (3) a ghost or a spirit
 - (4) unable to communicate with others

Directions for Questions No. 7 to 12: Each of these questions consists of a word in capital letters followed by four alternatives. Select the alternative that is most similar in meaning to the word in capital letters in each case.

7. ABANDON

- (1) desert
- (2) restrain
- (3) amass
- (4) collect
- 8. WRATH
 - (1) violence
 - (2) anger
 - (3) hatred
 - (4) jealousy

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	(1) hilly	(2)	remarkable	Country of the state of	
	(3) gay	155 Aug (30 (4) a	sad	on the south of the	tt
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10.	ADEQUATE TE	en jaran Kabupatèn		Territory (Masser Color)	
	(1) less	(2)	more		
	(3) exact	(4)	Builicient	property to the designation	
şāri -			. *	An Electropic Life	4.74
11.				n Haipai San Ido and	
	(1) rebuke	(2)	warming	Anna graph of the annaposition	
	(3) ridicule	(4)	threat	e i la espera de la compansión de la compa La compansión de la compa	
12.	STRINGENT	in species in the second	r de la companya de La companya de la co	production in the second section of	erist.
12,	공략의 하기에 있지만 그는 그 그 그는			With a great the second	
	(1) dry		rigorous	The state of the last	ale à
	(3) strained	(4)	shrill	1408 Soft	1.
Din	potione for Overtions D	V- 19 4- 70 TI-1		var <i>jan</i> y Assas (4)	
2000	ections for Questions N	r alternatives. Select	of these questions	consists of a word in	capital
	letters, followed by fou the word in capital let	ters in each case	ine diternative the	it is opposite in med	or Birth
13.	AMBIGUOUS	e i garan yang ber		with the control of the	
·, .	(1) clear				
	(2) brilliant		The second second second		
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	(4) ancient			e de la companya de l	
14.	INFERNAL				
	(1) fiery	• • •		The transfer	4.
	(2) heavenly			The second secon	
	(3) angelic				
	(4) earthly		•		
		en e			
15.	CREDULOUS			TA A	nw
	(1) sceptical			the state of a section	
- ş	(2) believer	Sa t erior			
	(3) surprised				
v.	(4) likely			and the	TO BE A SEC
**	(A) HWGIA				1.

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	(1) lazy	The second of th				
	(2) poor			· ·		
	(3) careless	क्षा का			No. of the second second	
	(4) rich				e de se	
	(4) rich				· · · · · · · · · · · · · · · · · · ·	
17.	INCOHERENT			•	•	
1.0.		Epital Annual Control				
	(1) intelligible					
	(2) disorganised					
	(3) unequal	and the state of t				
	(4) detached	The state of the s				
		in the second			•	
18.	PROLOGUE					
	(1) dialogue					
	(2) epilogue		•		e de la companya del companya de la companya del companya de la co	
			· · · · · · · · · · · · · · · · · · ·			
	(3) preface	sas, e ré l'a sit		•		
	(4) introduction				grafika di kacamatan	
19.	During in the summer v (1)	racation I shall go t	$\frac{\text{o the hills}}{2}$	nere I propo (3)	<u>se</u>	
	to spend a fortnight with		,			
	to spend a fortnight with (4)					
20.	(4) It is clear from the facts	h mý father. s gathered so far tl	nat he had			
20.	(4) It is clear from the facts (1)	h my father. s gathered so far tl (2)				
20.	(4) It is clear from the facts (1) in that murder.	h mý father. s gathered so far tl	nat he had			
20.	(4) It is clear from the facts (1)	h my father. s gathered so far tl (2)	nat he had			
	(4) It is clear from the facts (1) in that murder. (4)	h mý father. s gathered so far tl (2)	nat he had (3)	stopped.		
20. 21.	(4) It is clear from the facts (1) in that murder. (4) He explained why the	h my father. s gathered so far the control of the	nat he had (3) he goods have	stopped.		
	(4) It is clear from the facts (1) in that murder. (4)	h mý father. s gathered so far tl (2)	nat he had (3) he goods have	stopped.		
21.	(4) It is clear from the facts (1) in that murder. (4) He explained why the (1)	s gathered so far the same same same same same same same sam	hat he had (3) he goods have	stopped. (4)		
	(4) It is clear from the facts (1) in that murder. (4) He explained why the (1) Surely, it is not his book	s gathered so far the (2) manufacturing of the (3) ok, it is somebody's	hat he had (3) he goods have	stopped. (4)		
21.	(4) It is clear from the facts (1) in that murder. (4) He explained why the (1)	s gathered so far the same same same same same same same sam	hat he had (3) he goods have	stopped. (4)		
21. 22.	It is clear from the facts (1) in that murder. (4) He explained why the (1) Surely, it is not his box (2)	manufacturing of th (3) ok, it is somebody's (4)	hat he had (3) he goods have	stopped.		
21.	It is clear from the facts (1) in that murder. (4) He explained why the (1) Surely, it is not his book (2) The two brothers were	manufacturing of the (3) ok, it is somebody's (4) quarrelling with o	hat he had (3) he goods have	stopped.		
21. 22.	It is clear from the facts (1) in that murder. (4) He explained why the (1) Surely, it is not his box (2)	manufacturing of the (3) ok, it is somebody's (4) quarrelling with o	hat he had (3) he goods have s else. he another.	stopped. (4)		
21. 22. 23.	It is clear from the facts (1) in that murder. (4) He explained why the (1) Surely, it is not his box (2) The two brothers were (1)	manufacturing of th (3) ok, it is somebody's (4) quarrelling with (2)	hat he had (3) he goods have s else. he another.	stopped. (4)		
21. 22.	It is clear from the facts (1) in that murder. (4) He explained why the (1) Surely, it is not his box (2) The two brothers were (1)	manufacturing of th (3) ok, it is somebody's (4) quarrelling with (2)	hat he had (3) he goods have s else. he another.	stopped.		

	rections for Questions No. 25 to 3	0 : Fill in the blanks with approp	riate prepositions from
	the alternatives (1), (2), (3) and (4		
25.	He persecuted his subjects	their religious beliefs.	den
	(1) in		
* *	(2) from		
	(3) for		a suration at a re-
	(4) with		
•			
26.	The taxes that were being unjustly	v levied were abolished	the government.
	(1) with		Pino Par A
	(2) by		
÷	(3) from	As that the	eb MURATURA
	(4) against		of manager as in Street
			Commission of the second
27.	The two brothers wrangled	the distribution of the	property."
	(1) over		mire and its, the
	(2) with	the transfer of the state of main	A Section
	the first of the state of the s		
	(4) of		
00		화면 그는 어머니를 모르게 된다면 맛	
28.	At the sight of the huge creature, t	hey were petrified	fear.
	(1) in		
	(2) with	The best see that the begin	
	(3) from		
	(4) for	the property of the	in the or to in
29.	I would like to know	사용 기계 기계 등 기계를 받는 것이 되었다. 기계 기계 기	
ev.		responsible for this loss.	And the second
	(1) whose (2) who is		
	(3) which is	er jariya jakurasa (kiriban) ya	
	(4) what's		And the second s
	(4) whats		
BO.	If I had a choice I		2 216 33
	(1) had	stayed on.	
	(2) could have		
	(3) would have		
	(4) had had		
	The second section of the second seco		To the second

TEST II GENERAL KNOWLEDGE

21	The coin	called	'Runiva'	was	issued	for	the	first	time	by
31.	The com	caneu	Itupiya	. VV CLO	IBBUCU	IUI				•

- (1) Sher Shah Suri
- (2) Akbar
- (3) Alauddin Khilji
- (4) Mohammad Shah Tughlaq

32. The newspaper which was recently voted as the largest selling newspaper in the world is

- (1) The Los Angeles Times
- (2) The Times of India
- (3) The London Times
- (4) The Newspaper Times

33. Egg is a rich source of nutrients except

- (1) Vitamin C
- (2) Protein
- (3) Vitamin D
- (4) None of these

34. India Broadcasting Service was renamed in 1936 as

- (1) Akashvani
- (2) Nabhovani
- (3) Doorvani
- (4) All India Radio

35. Which of the following rivers does not flow through the northern plains?

- (1) Gomti
- (2) Gaghra
- (3) Bhagirathi
- (4) Krishna

36. Who was the first Chairman of the Planning Commission?

- (1) Gulzari Lal Nanda
- (2) J.L. Nehru
- (3) C.D. Deshmukh
- (4) K.C. Neogy

,	winch of the following.	is not a statutery body?	
1,	(1) Election Commissi	ion (. 1179 A. W. C.	
	(2) Finance Commission	ion	
	(3) Planning Commiss	sion distanti di Albanda	
	(4) Union Public Servi		
38.	Entomology deals with		tin maratika propinsi kalendar propinsi s Propinsi kalendar kalendar propinsi k
	(1) ear and nose		
	(2) stones		
	(3) language	The Magazine and Comment of the Comm	The first state of the second
	(4) insects		ang katalang ang katalang kat Katalang katalang ka
39.	The acid that is general	lly stored in batteries is	
	(1) Sulphuric acid		
	(2) Nitric acid		the transfer to the things of the
1 - 421 14 - 2	(3) Hydrochloric acid		
	(4) Acetic acid		The same of the sa
40.	Which of the following is	s not a part of the public sect	or reform in India ?
	(1) Restructuring		and the state of t
	(2) Memorandum of Un	nderstanding (MOU)	Training to the state of the st
	(3) Association of Indus		
	(4) Disinvestment		and the state of t
41.	Weedicides are used to ki	- 1966	
	(1) plant	The rest theretail serve have more	and mile at the contract
	(2) insects		
	(3) unwanted plants		
i yi	(4) pests		- Park Handida Steve (本語) 、 教作。 - Park Handida Steve (本語) ・ Andrew (本語
2.	Who were the first rulers	in India to issue gold coins o	m a mass scale 7
	(1) Indo-Greeks		The second of the second of the second
	(2) Kushanas		
	(3) Satavahanas		第一天 自己 的发展 的,我们就是要一个人的。 11. 我们们也是一点,我们的人们是不是一个人
	(4) Guptas		

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43.	Which of the following compounds are responsible for acid rain?
	a. Nitrogen dioxide
	b. Silicon dioxide
	c. Sulphur dioxide
	d. Carbon monoxide
	Select the answer from the codes given below:
	(1) a and b
	(2) a and c
	(3) b and d
	(4) c and d
44.	Which of the C.H. Ye
44.	Which of the following is not a viral disease?
	(1) AIDS
	(2) Measles
	(3) Mumps
	(4) Leprosy
45.	Raindrops are spherical due to
	(1) Viscosity of water
	(2) Surface tension
	(3) Continuous evaporation
	(4) Air friction
46.	Consider the following animals of India:
	a. Crocodile
	b. Elephant
	Which of these is/are endangered species?
	(1) Only a
	(2) Only b
	(3) Both a and b
	(4) Neither a nor b
477	Which is the City
47.	Which of the following is an important layer for the transmission of Radio waves?
	(1) Stratosphere
	(2) Troposphere(3) Ionosphere
,	(3) Ionosphere(4) Mesosphere
	(*) vresosbuete

48.	Who said that the King is a "Shadow of the God on Earth"?
	(1) Abul Fazal
	(2) Faizi
	(3) Farishta
	(4) Babur
49.	Which one of the following port cities in Venezuela was developed as an oil port?
	(1) Caracas
	(2) Carupano
	(3) Maracay
	(4) Maracaibo
- · ·	
50.	The sportsperson Yuvraj Singh is associated with
	(1) Archery
	(2) Cricket
	(3) Athletics
	(4) Golf
51.	Who amongst the following was the first Sultan of Tughlaq dynasty?
	(1) Firuz Shah Tughlaq
	(2) Muhammad-bin Tughlaq
	(3) Ghiyasuddin Tughlaq
	(4) Nasiruddin Muhammad Shah
52 .	Who amongst the following Mughal rulers reimposed 'Jaziya'?
	(1) Akbar
	(2) Aurangzeb
	(3) Jahangir
	(4) Humayun
53.	Dr. R.K. Pachauri is associated with
3 0.	
	(1) Music
	(2) Art
	(3) Medicine
	(4) Climate change
54.	The best known example of the Hoysala style of temple is found at
*	(1) Ajanta

(2) Madurai(3) Karle(4) Halebid

55.	Panini, a famous personality of ancient Itidia, was a/an
	(1) astronomer
	(2) grammarian
•	(3) mathematician
	(4) philosopher
56.	Dr. M.S. Swaminathan is associated with
	(1) Agricultural research
	(2) Space research
	(3) Nuclear research
	(4) Music
57.	Which of the following companies has started a rural marketing network called "e-chaupal"?
	(1) ITC
	(2) Dabur
	(3) HLL
	(4) Procter and Gamble
58.	The total geographical area of India is
	(1) 229 million hectares
	(2) 350 million hectares
	(3) 329 million hectares
	(4) 500 million hectares
59.	Which of the following is the first surface-to-surface missile in India?
	(1) Prithvi
	(2) Trishul
	(3) Agni
	(4) Nag
60.	A program used to start the computer is
•.	(1) Compiler(2) System Software
	(3) Boot
-	(4) Interpreter

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					Summer	
61.		+ Q' means 'P' is the br				+ Q' means
	(1)	s the mother of 'Q', whi $M \times S \times R$	ch would mean	t is the son of	I IMI ?	
	(2)	$M \times S \times K$ $M + R \times S$				
	(3)			Control Ander	A Commence of the	John Million
		$M \times R \times S$ $M \times S + R$			กำหนางของ การแกรมีนั้งให้เนื่อ	A
	(*)	W × O × It				
62.		na is twice as old as So old is Reena now?	unita. Three year		21.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.	No. 1 11 11 11 11 11 11
• 4	(1)	12 years	Kalindary of the Salah			Wind in the contract of the co
N	(2)	6 years				
£, 19	(3)	8 years	r de de esta en	the way of the	griv off of the same will	
	(4)	16 years				i e d∫a•e"
•	•					Ti, il
	righ	metres then turns to the tand stops after walking point? South-west		ow in which o		ter from the
	(2)	North-east			Marking Commence (1997)	- 11(表 . * - 14) 보호:다
	(3)	South-east			able includes of	
	(4)	North-west				
.				<u> </u>	en es grif et d'illa 92	
Dire		s: In questions no. 64 n words find the missin		*** , T.	d on the relationshi	p of the two
	ъ.		reini rost foe hier	and a content	the supplied of the	39. Water
04.		y: Human:: Lily:?			Section of the	4.40
	(1)	Flower				1.79
	(2) (3)	Rose Hand	•		200	
	(4)	Down				74-11-14-15-15-15-15-15-15-15-15-15-15-15-15-15-
	(4)	Down				
65.	CAF	T: ART:: FOUR:?		er seriori e en		60. prog
91.5	(1)	RUN			nying co	9 11
		TWO			urfie? g. a.	日日の一つとして大海域と第
		QUE				U . Li.
	(4)	OUR			tatagast	

- 66. EIGHTY: GIEYTH:: OUTPUT:?

 (1) UTOPTU

 (2) UOTUPT

 (3) TUOUTP
- 67. ABC: ZYX:: DEF:?

TUOTUP

(1) UVW

(4)

- (2) WUV
- (3) FED
- (4) WVU

Directions: In questions no. 68 to 70, three out of four words are alike in some manner. Spot the odd one out.

- 68. (1) Cannon
 - (2) Gun
 - (3) Pistol
 - (4) Sword
- 69. (1) Chemistry
 - (2) Geography
 - (3) Subject
 - (4) Literature
- **70.** (1) Club
 - (2) Heart
 - (3) Spade
 - (4) Ace
- 71. What is the proper order of the following?
 - a. Accident
 - b. Hospital
 - c. Ambulance
 - d. Carelessness
 - e. Injury
 - (1) aedcb
 - (2) eadbc
 - (3) daecb
 - (4) cdaeb
 - (5) daceb

A. Sleep K. Tranquilizer c. Illness d. Dream s. Sleeplessness (1) ecdab (2) cebad (3) badce (4) beade (5) cedab 73. Find out the set of letters for the blanks to complete the series. aabc_bbcab_cabc_abc_ (1) acaa (2) cabb (3) aabb (4) caba, (5) bbac Directions: In questions no. 74 to 76 one term is missing. Based on the relationship of the first two given words find the missing term from the given options so that a similar relationship is formed between the third word and one of the options. 74. Sculpture: Statue:: Poet:? (1) Poem (2) Music (3) Painting (4) Dance 75. Custom: Culture:: Ritual:? (1) Religion (2) Sect (3) Practice (4) Function	72.	Wha	at is the proper order of the following	lowing?	Pro Ng			P. A. V.	Ank S
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(1) Poem (2) Music (3) Painting (4) Dance 75. Custom : Culture :: Ritual : ? (1) Religion (2) Sect (3) Practice (4) Function 76. Venus : Planet :: Rose : ?							4.		2.5
(1) Poem (2) Music (3) Painting (4) Dance 75. Custom : Culture :: Ritual : ? (1) Religion (2) Sect (3) Practice (4) Function 76. Venus : Planet :: Rose : ?		en eg Kortu						1.00	
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(3) Painting (4) Dance 75. Custom : Culture : : Ritual : ? (1) Religion (2) Sect (3) Practice (4) Function 76. Venus : Planet : : Rose : ?	· · · · · · · · · · · · · · · · · · ·			(0)	36				
75. Custom : Culture : : Ritual : ? (1) Religion (2) Sect (3) Practice (4) Function 76. Venus : Planet : : Rose : ?		(1)	Poem	(2)	Music				
(1) Religion (2) Sect (3) Practice (4) Function 76. Venus: Planet:: Rose:?		(3)	Painting	(4)	Dance	er interes			
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(3) Practice (4) Function 76. Venus: Planet:: Rose:?			•	(Å)	Class				
76. Venus: Planet:: Rose:?		(I)	Kengion						
76. Venus: Planet:: Rose:?	,, .	(3)	Practice	(4)	Function		in the second		•
								Part Address	
(1) Garden (2) Flower	76.	Ve	nus: Planet:: Rose:?						
	, •	(1Š	Gordon	(9)	Flower				

(3) Red

None of the above

Directions Questions No. 77-78: Find the missing letters/numbers from the given options to complete the given series.

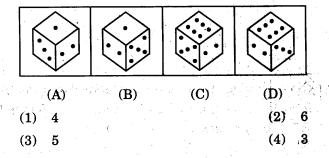
78. 18, 30, 48, 72, _?

(1) 106 (2) 115 (3) 120 (4) 102

79. If TABLE is written as GZYOV, how is 'JOICE' written?

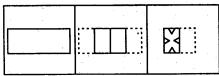
(1) OZLEJ (2) QLRXV (3) HOFAD (4) QZHMT

80. In the following figures, four different views of a dice are given. Find the number of dots on the face opposite to the face with two dots ••.

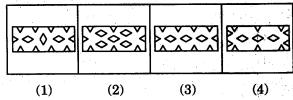


81. A piece of paper is folded and punched as shown below. From the given responses, indicate how it will appear when opened.

Question Figures:



Answer Figures:

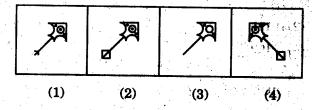


82. Which of the following answer figures shall complete the question figure?

Question Figure:



Answer Figures:

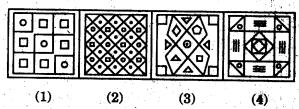


83. In which of the following answer figures is the question figure embedded?

Question Figure:

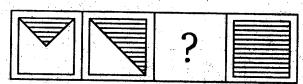


Answer Figures:

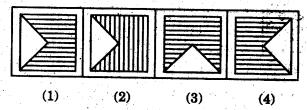


Directions: In questions no. 84 to 89 one figure is missing. From the given unswer figures find the figure which will complete the series given in the question figures.

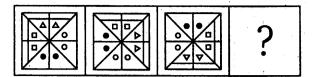
84. Question Figures:



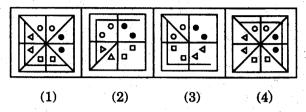
Answer Figures:



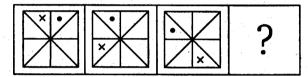
85. Question Figures:



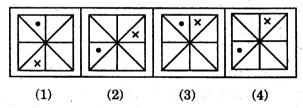
Answer Figures:



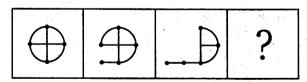
86. Question Figures:



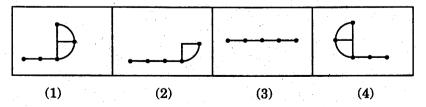
Answer Figures:



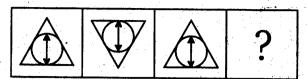
87. Question Figures:



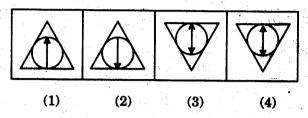
Answer Figures:



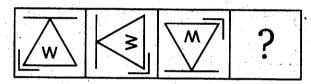
88. Question Figures:



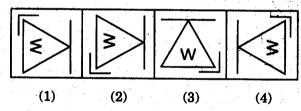
Answer Figures:



89. Question Figures:



Answer Figures:



90. Which one set of letters when sequentially placed at the gaps in the given letter series shall complete it?

Section of the second

SECS MIX-14-11-10

 $D_N_N_N N D M_N$

- (1) N D M N M
- (2) M N D M N
- (3) M D M N M
- (4) D M N N M

TEST IV

MATHEMATICS

91.	What will come in place of the question mark?
	$\sqrt{\sqrt{625} + \sqrt{576}} = ?$
	(1) 49
	(3) 54 (4) 7
92.	The amount of simple interest assumbly in the second state of the
\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	The amount of simple interest accrued on a principal of Rs. 25,000 in 7 years is Rs. 21,000 What is the rate of interest per cent per annum?
	(1) 15 (2) 10
	(3) 18 (4) None of these
93.	The sum of ages of members (children and their parents) of a family is 360 years. If the sum of the ages of the children in the family is 240 years, what is the ratio of ages of the husband to the wife?
	(1) 3:2
	(2) 2:3
	(3) 1:2
	(4) Cannot be determined
94.	What is the circumference in centimetres of a circle whose area is 49π square centimetres?
	(1) 28π (2) 14π
	(3) 7π (4) 21π
95.	What will be the cost of tiling the floor @ Rs. 35 per square metre, if the hall is of a square shape and has a perimeter of 400 metres?
	(1) Rs. 19,000 (2) Rs. 57,000
	(3) Rs. 38,000 (4) None of these
96.	The average of eight numbers taken together is 12. Two of these numbers are 0 and the remaining numbers are equal. What is the value of the non-zero numbers?
	(1) 16 (2) <u>12</u>
	(3) 6
97.	A train running at a speed of 90 km per hour crosses a platform, double its length, in 36 seconds. What is the length of the platform in metres?
	(1) 450 (2) 200
	(3) 300 (4) 600

91.

- 98. The average age of 24 boys in a class is 11. When the teacher's age is included, the average increases by one. What is the age of the teacher?

 (1) 34 years

 (2) 42 years
 - (3) 36 years (4) 48 years
- 99. If the length and breadth of a rectangular field are increased, the area increases by 50%. If the increase in length was 20%, by what percentage was the breadth increased?
 - (1) 30%

(2) 25%

(3) 20%

- (4) None of these
- 100. A sum of money is divided among A, B, and C, such that if A gets one supee, B gets 65 paise and C gets 35 paise. If C's share is Rs. 28, the total money divided is
 - (1) Rs. 120
- (2) Rs. 140
- (3) Rs. 160

- (4) Rs. 180
- 101. Find the missing number from the given sequence

5, 9, 13, 17, ?, 25

(1) 27

(2) 23

(3) 21

- (4) 19
- 102. The area of the greatest circle which can be inscribed in a square whose perimeter is 120 cm is
- $(1) + \frac{22}{7} \times 15^2 \text{ cm}^2$
 - $(2) \quad \frac{22}{7} \times \left(\frac{7}{2}\right)^2 \text{ cm}^2$
- $\frac{22}{7} \times \left(\frac{15}{2}\right)^2 \text{ cm}^2$
 - $(4) \quad \frac{22}{7} \times \left(\frac{9}{2}\right)^2 \text{ cm}^2$
- 103. Starting from his house one day, a student walks at a speed of $2\frac{1}{2}$ kmph and reaches his school 6 minutes late. Next day at the same time he increases his speed by 1 kmph and reaches the school 6 minutes early. How far is the school from his house?

Along the about the letter to the the graph of the last

arathorna basteric

- (1) 2 km
- (2) $1\frac{1}{2}$ km
- (3) 1 km
- (4) $1\frac{3}{4}$ km

104.	Fre be o	sh frui obtaine	ts conta d from	ain 68 100 l	% water	r and d	ry fru ts ?	its contain 20%	water. How	w much dry	fruits can
	(1)	32 kg				Array .		40 kg			
	(3)	52 kg			, , , , , , , , , , , , , , , , , , ,	, 27 JW.	(4)	80 kg		1. The state of th	
105.	The	value	of		Literatus		iday y	i translation of the	estante de la compansión d La compansión de la compa		
		0.4					2.194	0.01			10 (10 m)
	(3)	-1					(4)	0.001	•		
106.	A n	nan car es him	n row a	at 5 k to ro	mph in w to a	still w	ater. nd co	If the velocity me back, how f	of the curr	ent is 1 km ace ?	ph and it
	(1)	2.5 k	m,	•			(2)	3 km			
	(3)	2·4 k	m				(4)	3.6 km			
107.	The	HCF o	of two 1	numbe	rs is 15	and th	eir L(CM is 300. If or	ne of the nu	mbers is 60.	the other
	is	-	٠.		:- 					;	
	(1)	50	•				(2)	75			*
	(3)	65	***	*			, (4)	100			
108.					A, B, C hen the			he average wei is	ght of A and	l B be 40 kg	g and that
:	(1)	17 kg					(2)	20 kg			
	(3)	26 kg		•			(4)	31 kg			
109.	The	area o	f a reg	ular l	exagon	of side	2√3	cm is			
		18√3			•				•		
		$12\sqrt{3}$							series i		
	(3)	$36\sqrt{3}$									
											4.*
	(4)	27√3	cm-					•			
110.	The	ratio (of base	s of tv	vo trian Iltitude	gles is	x :y	and that of th	eir areas is	a: b. Then	the ratio
		a b	respon	ung a	murude	e- MIII D	æ	Section of the section of			
•	(1)	$\frac{-}{x}:\frac{x}{y}$		1. r ¹							
	(2)	ax : b	y								
	(3)	$\frac{\mathbf{x}}{\mathbf{a}} : \frac{\mathbf{b}}{\mathbf{y}}$									

(4) None of these

111.	The maximum value of	csin x + cos x is e	qual to up	to a land on the contract for	ini i
	(1) $-\sqrt{2}$	(2)	J2 Head dank dragg	Liter and Louistick ou	
	(3) 2	(4)	√ 3		*
*.• •			t∔ ≱.		
112.	The value of $\sin^{-1}\left(\frac{3}{5}\right)$	$+ \tan^{-1} \left(\frac{1}{7}\right)$ is eq	ual to	The raign of	co 1
• • • • • •			i valenti kais	10.00 months 2	
	(1) π	(2)	$(\frac{2}{2})$		
A. 1.	in Salahan kalah mendiran	The same of the sa	. π	where was in thinks with	
	$(3) \frac{\pi}{4}$		8		*1.56
	a cysta with			क्ष को उर्वकार है उसके करके हैं । इस्ता की प्रकार है उसके करके हैं !	APR 2 1
113.	The value of a in			· Sansaa	
	$\frac{\mathbf{a}}{84} = \frac{189}{\mathbf{a}} \mathbf{is}$	- 1 - 1 - 対 (大)	(3)	Ship 2 maga	
		(2)	124		
	(3) 130	7 April 17 6 6 1/2.	. Tom bar * Files - 132	one (1) the T	101
			Q		
114.				rest for a certain period time period, what is the	
	of interest?				234
1 J	(1) 6%	e thank (2)	4% N	The age of the	.801
	(3) 5%	(4)	3%	a se fi soù Come a se Se se Come a se Se et Co	
115.	Which of the following				
	a. $\left(\frac{x}{4}\right)^3 - \left(\frac{y}{2}\right)^3$	ا منافق المنافق	Para his to nogero	i religent to sor	uut!
	(4) (2)			Sag Cyel Cy	, of t
	b. $\left(\frac{x}{4} + \frac{y}{6}\right)^3 - \frac{3xy}{6}$	$\left(\frac{\mathbf{x}}{4} + \frac{\mathbf{y}}{6}\right)$		Sag cyti it	
	c. $\left(\frac{x}{4} + \frac{y}{2}\right) \left(\frac{x^2}{16} - \frac{y}{2}\right)$	$\frac{xy}{x} + \frac{y^2}{x}$		27 JF 1997	
	(4 2) (16	8 4)			*
38	d. $\frac{1}{8}\left(\frac{x}{2}+y\right)\left(\frac{x^2}{4}-\frac{x^2}{4}\right)$	xy + v2		the familial body of the	ATT.
· · · · ·	$8 \left(\frac{1}{2} \right) \left(\frac{4}{4} \right)$	2		o como graposa de la Parilla de la Caraca de	all a
· . ".	(1) a and d				
				ve take is	* **
	(2) b and c				
	(3) b, c and d		. ***		
	(4) a hande		and the first training with		10 MM 2

116.		sum of 2. The age		husband	and	a wife	is 70	years	and	the	ratio	of their	ages is
	(1)	42 years		 ÷									
	(2)	25 years											
	(3)	28 years									• 4.		
	(4)	27 years	•										

- 117. Two equal glasses are respectively $\frac{1}{4}$ and $\frac{1}{3}$ full of milk. They are then filled up with water and the contents are mixed in a tumbler. The ratio of milk and water in the tumbler is
 - (1) 3:11
 - (2) 7:17
 - (3) 9:23
 - (4) 11:23
- 118. A train 700 m long is running at 72 kmph. If it crosses a tunnel in 1 minute, the length of the tunnel is
 - (1) 700 m
 - (2) 600 m
 - (3) 550 m
 - (4) 500 m
- 119. On the level ground the angle of elevation of the top of a tower is 30°. On moving 20 m nearer the tower, the angle of elevation is found to be 60°. The height of the tower is
 - (1) $10\sqrt{3}$ m
 - (2) 10 m
 - (3) 15 m
 - (4) 20 m
- 120. The least number to be added to 269 to make it a perfect square is
 - **(1)** 31
 - (2) 16
 - (3) 7
 - (4) 20

			PHYSICS	of the said	9 3 ANT	
r i	÷				2 Valent	k., (1
121.	Ozor	ne layer protects the earth from	n	· ·		S (\$4) 2
	(1)	Infra-red radiation			The second se	
	(2)	Ultraviolet rays				
r Ing	(3)	Cosmic rays	* · · · · · · · · · · · · · · · · · · ·			.
	(4)	None of these		e de la Companya de La companya de la Com		
	J. St.				englishing lang	等。/建立教制
122.		exothermic reaction is one which	ch .	ger en jegingeren.	or I was in the	$\mathbf{d} t_{i,j+1}$
	(1)	Absorbs heat		-:		
	(2)	Releases heat				왕 : (1) 로 : (1)
	(3)	Decreases heat	•			4. 3.
	.(4)	None of these			A STATE	
123.	Ш.	colour of a star is an indicatio				
140.		Size	n or		V.	
	, ,	·				
	(3)	Age Distance	e de Ma		a set a Record	
	. " "	Temperature				**************************************
	(4)	Temperature			, 1 , 10, 10, 10, 10, 10, 10, 10, 10, 10, 10	
124.	A dr	op of water is spherical due to				**
	(1)	Surface tension			CALLED TO THE	
	(2)	Cohesion			- 400 (C)	4.
		Adhesion				
Vario Tr		Viscosity	The second secon	erio ingganating	a level graism	19. Qi sh
		ment of the minimum for the	and the same		all nown of	
125.	The	instrument for measuring inte	nsity of earthq	uakes is called		
	(1)	Eidograph			To street, they	
	(2)	Pantagraph		1		
	(3)	Ergograph				
e e	(4)	Seismograph				(1) 2
					a lange dan di ik	
126.	Dian	nonds are glittering and attrac	tive because lig	ht incident on	them undergo	M on'i .0%
	(1)	highest refraction				i i
	(2)	multiple internal reflections			garagili .	
	(3)	multiple surface reflections				스 경영환 시설. 인기는 휴가
	(4)	hundred percent transmission		and the second		

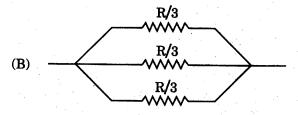
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127. The inertia of an object depends only on its

- (1) Colour
- (2) Shape
- (3) Mass
- (4) Physical state

128. In the given circuits A (net resistance R_A) and B (net resistance R_B), the resistances R_A and R_B satisfy the condition





- $(1) \quad R_A > R_B$
- $(2) \quad R_A < R_B$
- $(3) \quad R_A = R_B$
- (4) None of the above

129. Which of the following is used to split white light into different colours?

- (1) Glass mirror
- (2) Convex lens
- (3) Concave lens
- (4) Prism

130. Fibre optics work on the principle of

- (1) Scattering of light
- (2) Total internal absorption
- (3) Total internal reflection
- (4) Optical rotation

131. A transformer

- (1) stores energy
- (2) regulates voltage
- (3) speeds up transmission of energy
- (4) changes electrical energy into mechanical energy

14

132.	If μ_s	, μ_k , μ_r represent the coefficient of static, kinetic, and rolling friction respectively, then,
	(1)	$\mu_{\mathbf{s}} = \mu_{\mathbf{k}} = \mu_{\mathbf{r}}$
	(2)	$\mu_{\rm s} < \mu_{\rm k} < \mu_{\rm r}$
	(3)	$\mu_{\mathrm{s}}>\mu_{\mathrm{k}}>\mu_{\mathrm{r}}$
	(4)	$\mu_{\mathbf{k}} > \mu_{\mathbf{s}} > \mu_{\mathbf{r}}$
133.	The	moment of momentum is named as
	(1)	Impulse
	(2)	Couple
	(3)	Torque
	(4)	Angular momentum
134.	The	velocity of sound is largest in
	(1)	Water
	(2)	Vacuum
	(3)	Air
	(4)	
135.	A tr	ansverse wave travels along the z-axis. The particles of the medium must move
	(1)	along the z-axis
	(2)	along the x-axis
	(3)	along the y-axis
	(4)	in the x-y plane
136.	Dec	bel is the unit used for
	(1)	Speed of light
	(2)	Intensity of heat
	(3)	Intensity of sound
	(4)	Radio wave frequency
137.	Con	version of chemical energy into electrical energy occurs in
	(1)	dynamos
	(2)	electric heaters
•	(3)	batteries
	(4)	atom bombs
138.	The	temperature decreases with the mixing of sugar in hot milk, because
•	(1)	sugar remains cool
	(2)	milk becomes cool with sugar by chemical process
	(3)	sugar takes the heat of milk to set into a liquid
	(4)	All of the above

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1	39. 7	The t	emper	ature :	at whi	ch the	SDeec	of so	und is	. oim	haa				_	at 27° C
	i	S	1.1				- Pooe	· Or SU	unu n	i aur	oecome	es doi	ible o	f its v	alue	at 27° C
٠, ٠	.(1) {	54° C													
	(2) 3	327° C					12.00								
	(3) 9	27° C													
	(4	1) -	123° (;				•								
													.,			
14	10. V	hen	an obj	ect is	transf	erred	from t]	he ear	th to	the m	oon					
	. (1) it	s weig	ht inc	eases											
	(2) it	s mas	incre	ases	• .			1	* .		` '				
	(3) it	s mass	decre	ases											
	(4) it	s weig	ht decr	eases.	. •										
14	1. Di	men	sional	formul	_ c _ •											
	(1)		и L ² Т		a ior i	mpuls	e is	٠								
	(2)		MLT LT	•												
	(3)		all Alt-	-								•				
				7							•					
	(4)	[]	Λ L ⁻² '	[-2]					•							
142	. We	find ocity	l that vector	if a b	ody m	oves i	n a ci	rcle d	escribi	ng ec	ual ar	ngles	in eq	ual ir	ıterva	ls, the
	(1)			n mag								-				
	(2)			n direc												•
	(3)			onstan					•							
	(4)	cha	nges b	oth in	magn	itude	and di	raction	_							
						100			100							
143.	A b	omb s is	of 12 6 m/s.	kg exp	lodes	into t	wo pie	ces of	mass	es 4]	kg and	18 kg	g. The	veloc	ity of	8 kg
	(1)	24				crier 8.	y or un	e otne	r mas	s is						, •
	(2)	32 .														
	(3)	48														
	(4)	288														
													. *			
l 44.	Elec	rom	agnetic	induc	tion ir	volve	8									
	(1)	110	4.				tive ch	arge								
	(2)						ive cha					:				
	(3)	the	produc	ion of	curre	nt by	relativ	e moti	on ha	****			_			
	(4)	None	of the	200				- 111001	OII DE	ween	a mag	gnet a	and a	coil		

(4) None of these

145.	Whe	n an object absorbs all t	the colours incide	t on it, it appe	ars		(de
	(1)	white	1000				
	(2)	blue					
	(3)	black					
	(4)	None of these					
146.	The (Giv	frequency of BBC is 15 yen velocity of light c =	00 kHz. What is is 3×10^8 m/sec)	ts wavelength			
	(1)	210 m					
	(2)	200 m			n de la companya de La companya de la co	ranga nga ang Sala	327
	(3)	400 m		기가 있다고 있는 경기 생활 기가 있다.	Tigas in the Charles of Charles and the		
	(4)	300 m					1
							1.61
147.	Ca	ndela is a unit of	e e e e e e e e e e e e e e e e e e e				
	(1)						
•	(2)	A Company of the Comp			ราก (การกำรับ) นายเกลด์ในโซโลเลดี (การ		
٠.	(3)	Luminous intensity					
	(4)	Magnetic intensity			1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		
	de (1						
	(2) Le Chatelier's princip	ole	on end an of	The section of the		
	(3) Law of conservation	of mass	•			
	(4			1000	tar has it		A North
				in the a to the angle of the	ម្រាស់ ស្រាស់ ម	1771 -4 6	
149	9. T	he mass and acceleration f energy will be spent in	of an object are intravelling the dis	100 kg and 10 m stance of 10 m	/sec respectiv	ply. What s	Mioter
		1) 1000 joule			iş engan direktiği ilkil Heriologia		· yr · · ·
		2) 10 kilo joule		•			Signatur Signatur
						The second	y.
		3) 50 joule					erio de la composição de La composição de la compo
1.		4) 150 joule		e Mariana Mariana di Pangarana di Pangarana	•	ารก็กุรรูปินัก เอาสารสาร	
15	50. V	Velocity of light in a me	dium is 2×10^8 m	s ⁻¹ . Refractive	index of the co	edium is	
		(1) 1.4					
		(2) 2.3					
		(3) 1·0			g transfer the		A No. 1
		(A) 1·5			The transfer		

TEST VI

CHEMISTRY

- 151. The correct order of atomic radii is
 - (1) N < Be < B
 - (2) Na < Li < K
 - (3) $Fe^{3+} < Fe^{2+} < Fe^{4+}$
 - (4) $F^- < O_2^- < N^{3-}$
- 152. The ratio of charge to mass would be greater for
 - (1) Proton
 - (2) Electron
 - (3) Neutron
 - (4) Alpha particle
- 153. Sulphur has the highest oxidation state in
 - (1) H_2SO_4
 - (2) $Na_2S_2O_3$
 - (3) SO_2
 - $(4) \quad \mathrm{Na_2S_4O_6}$
- 154. In the modern periodic table, the period indicates the value of
 - (1) Atomic number
 - (2) Atomic mass
 - (3) Principal quantum number
 - (4) Azimuthal quantum number
- 155. Temporary hardness in water is caused by
 - (1) MgCO₃
 - (2) MgSO₄
 - (3) Mg(HCO₃)₂
 - (4) MgCl₂
- 156. $BaCl_2 + Na_2SO_4 \rightarrow BaSO_4 + 2 NaCl$ is a
 - (1) Replacement reaction
 - (2) Decomposition reaction
 - (3) Double decomposition reaction
 - (4) Substitution reaction

157.	Bon	d order of a molecu	le of oxygen	n is				
	(1)	One	•	eren eren eren eren eren eren eren eren	a. mare mare a			
	(2)	Two						
-	(3)	Three			1.1.38	i Tagasa sa Tibo Tagasi at tag	e nere e e e	1.5
	(4)	Four					rete interes	*****
158.	One	litre of dioxygen ga	s at STP v	vill weigh	(in grama)		Selvin (1) i The Company of the Co	
	(1)	1.43		viii weigh	an Brame)			***
	(2)	2.24			•		17	
	(3)	22.4						
	(4)	11.2						Dr fig
,			. ,		$\gamma_{1,1}, \widetilde{\beta_{k-1}}, \varepsilon_{1,2}, \varepsilon_{2}$	was tropped the	war ist	
100.		enthalpy of all elen	nents in the	eir standar	d state is		n (#4)	-
1.	(1)					13.7		g så gal
٠.	(2)	0		•	•		náis ir j	
	(3)	∞			•		hije da	
	(4)	-1						
1 6 0.	Cha	nge in Gibbs free er	nergy is	.*		the state of the second	उत्तर्भा पर्वे	4 4 5
	(1)	$\Delta G = \Delta H + T \Delta S$					3. 14	
	(2)	$\Delta G = \Delta H \times T \Delta S$	•		**************************************		far Til	
	(3)	$\Delta G = \Delta H - T \Delta S$			•		de de	
	(4)	None of these						
101	XX7L:	al teal en						
101.		ch of the following l	ias greater	entropy ?	ر بورۇقى ي ە ب	าราชาธิบัติ เรียบสามารถ (1915)	Birdî at	76.
	(1)	Ice	•			e Ganter Steel	1.0	
• • • • • • • • • • • • • • • • • • • •	(2)	Mixture of water a	nd ice	•				
in the state of th	(3)	Water vapour		• .		ener er en	100	A
	(4)	Liquid water				andriana desperimentos. De tarios de seguinos	4.1	
162.	1 m	of 0·1 M HCl is ad	lded into 99	ml of wa	ter. The pH o			
1.50	(1)				CO-MORE TO	the distribution of	यक्षेत्री समी	₩
	(2)	1.0						• / 1
	(3)	2.0		•	25 · · · · · · · · · · · · · · · · · · ·			ing William Times
	(4)	3.0				100	gara . Na	A.
·	·	•		v.	· · · · · · · · · · · · · · · · · · ·			
l 63 .		gas is a mixture of	* * * * * * * * * * * * * * * * * * * *			ing the state of t		1 0.00
	(1)	4					100 111 24 450 111 1	हर ा धी क्रि
	(2)	CO ₂ and H ₂				1000年 通過 1000年 日本 1000年 日本 1000年 1000年 1000年 1		
	(3)	H ₂ and Cl ₂				THE STATE OF THE S	was salah Salah salah	
	(4)	NH ₃ and Cl ₂				on almospoor and object There is a substitute		
	£						3535M 194	

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170. The IUPAC name of the compound with structural formula $CH_3 - C - CH_2OH$ CH_3

CH₂

is

- (1) 2-dimethylpropan-1-ol
- (2) 2,2-dimethylpropan-1-ol
- (3) 2-methylbutan-1-ol
- (4) None of the above
- 171. The most stable carbocation among the following is
 - (1) CH₃
 - (2) CH₃CH₂
 - $(3) (CH_3)_2 CH$
 - (4) (CH₃)₃C
- 172. The amount of electricity required to deposit 1 mol of aluminium from a solution of AlCl₃ will be
 - (1) 0.33 Faraday
 - (2) 1 Faraday
 - (3) 3 Faraday
 - (4) 1 Ampere
- 173. Alums purify muddy water by
 - (1) dialysis
 - (2) adsorption
 - (3) coagulation
 - (4) filtering
- 174. Aluminium is not present in
 - (1) cryolite
 - (2) mica
 - (3) feldspar
 - (4) fluorspar
- 175. Which of the following halides is most acidic?
 - (1) PCl₃
 - (2) SbCl₃
 - (3) BiCl₃
 - (4) CCl₄

164.	Kate of reac	tion $A \rightarrow B$	is written	as		neu saminu i Hetere. L	18 80 0 1018 0 Ph		i et tik
	(1) d[A] ×	dt Roman		continuate of	ing the second		CHEROLOGICAL CHEROLOGICAL	i da Mari	1100
	$(2) \rightarrow \frac{d[A]}{dt}$	TAP X							
							i seekt		
	$(3) - \frac{d[A]}{dt}$			gaga (see A		dada dari	interioribi	* 1449	
	(4) - dA ×	dt					h middl		100 100 100
							M. Hand		
165.	Which of the effluents?	e following is 1	used in pol	llution conti	rol i.e. treat	ment of d	omestic and	indus	trial
	(1) Ca(OH) ₂		an valid y	ப் நிருள்ளார். மாற்று கூராள்	integral (to p	in st. Eur	a edd.	171
	(2) D ₂ O	T. W., .			of Alet (Brief Allice) Brief Grief Allice			r action Confiden	
	(3) Alum						44/1		
	(4) NH ₃						10.76		
	•			•				. (5)	
166,		rmulae of was	hing soda	is 1	at he Layro	Spilitary	and Lymn	. 22 x 1 1	SVI
	(1) NaOH							. 15	
	(2) Na ₂ CO	₃ . 10 H ₂ O							
	(3) CaCO ₃				•		i Tybri a I	<u> </u>	
	(4) NaHCO)3					in in the second		
167.	Borax is exp	pressed as		V.		indiagyyymi ntil	Standard S		(01,
	(1) Na ₂ B ₄ (O ₇ . 10 H ₂ O							.611
	(2) Na ₂ B ₄ (O ₇ . 5 H ₂ O	er er		\$0.4(*)		an et jarok Arry arekv	1.397	
	(3) Na ₂ B ₇ ($\mathbf{p_4}$	· .		1		and the second	- 1901 - 1907	
	(4) H ₃ BO ₃						ruse alid		
100		hadiyiya ya							2012
168.		g point of diar		ite being a	covalent co	mpound'il		* 66 /\	1
		crystal structu	ıre				of lega.	7/	4.
	(2) toughned (3) strong	ess C – C bond			1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		independent	- 1244 - 1444	
		nature					, to the south	4	
	(-) V-Bu	1140410				k	ia di Angles Hefs (m. 15284)	e de Paris de la compansión de la compan	
169.	Two imports	ınt man-made	silicates a	re halos	an a sophi	હતી ભૂતમારાઓનું	ર્ષ કુંક કુંક	T.	. 7 % .
		nd cement					I have the		
	, .	nd felspar					are all de		4
		and felspar				C. 20	in a Na		
	(4) felspar	and zeolite							

176. When formaldehyde and KOH are heated we get

- (1) acetylene
- (2) methane
- (3) methyl alcohol
- (4) ethene

177. The general molecular formula which represents the homologous series of alkanols is

- (1) $C_n H_{2n+2} O$
- $(2) \quad C_n H_{2n} O_2$
- (3) $C_nH_{2n}O$
- (4) $C_n H_{2n+1} O$

178. For the reaction

$$OH \longrightarrow ONa + H_2O$$

X is

- (1) NaOH
- (2) Na
- (3) NaH
- (4) NaH₂

179. Transition metal halides have the highest oxidation number of metal

- (1) chlorides
- (2) fluorides
- (3) iodides
- (4) bromides

180. The reaction

 $CH_3Br + 2Na + BrCH_3 \xrightarrow{dry ether} CH_3 - CH_3 + 2NaBr$ is called

- (1) Wurtz reaction
- (2) Decarboxylation
- (3) Kolbe's reaction
- (4) Halogenation

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