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SPACE FOR ROUGH WORK

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Roll No. :

NMMS(E)

ENGLISH



SI No.:

150837

NMMS - NOVEMBER, 2018

MENTAL ABILITY AND SCHOLASTIC APTITUDE TEST

Time: Part - I: 90 Minutes

Max. Marks: 90

Time: Part - II: 90 Minutes

Max. Marks: 90

Instructions to the Candidates

Read the following instructions carefully before you answer the questions. Answers are to be SHADED on a SEPARATE given OMR Answer Sheet with a **HB Pencil**. Read the **Instructions** printed on the OMR Sheet carefully before answering the questions.

- Please write your Centre Code No. and Roll No. very clearly (only one digit in one block) on the OMR Sheet as given in your admission card. Please see that no block is left unfilled and even Zeros appearing in the Centre Code No. are correctly transferred to the appropriate blocks on the OMR Sheet as shown in the example given in the OMR Sheet. For all subsequent purposes, your Centre Code No. and Roll No. shall remain the same as given on the Admission Card.
- 2. The Test is in TWO Parts. Part-I consists of 90 questions and Part-II also consists of 90 questions.
- 3. All questions in Part-I and Part-II carry one mark each.
- 4. Since all questions are compulsory, do not try to read through the whole question paper before beginning to answer it.
- Begin with the first question and keep trying one question after another till you finish both the Parts.

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Contd ...



- 6. If you do not know the answer to any question, do not spend much time on it and pass on to next one. If time permits, you can come back to the questions which you have left out in the first instance and try them again.
- 7. Since the time allotted to the two parts of this question paper is very limited, you should make the best use of it by not spending too much time on any question.
- 8. A blank page is provided for rough work at the end of each part.
- 9. Remember, you have to shade answers on a separate OMR sheet provided.
- 10. Answer to each question is to be indicated by SHADING the circle having the number of the correct alternative in the OMR Sheet from among the ones given for the corresponding question in the booklet.
- 11. Now turn to the next page and start answering the questions.
- 12. After the examination, you should hand over the OMR Sheet to the Invigilator of the room.
- 13. The candidate need not return this Question Paper Booklet and can take if after the completion of the examination. No candidate should leave the examination hall before the end of the examination.

This Booklet consists of 27 Pages for 180 Questions + 03 Pages of Rough Work + 02 Title Pages i.e. Total 32 Pages

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Part - I: MENTAL ABILITY TEST

Time: 90 Minutes

Max. Marks: 90

Note: SHADE the correct alternatives in the OMR Answer Sheet provided, from amongst the ones given against the corresponding questions in the Question Paper Booklet. For shading the circles, use a **HB Pencil**.

Directions: Questions (1 to 10):

In the number series given below, one number is missing. Each series is followed by four alternatives (1), (2), (3), (4). One of them is the right answer. Indicate it as per the instructions.

1.	380, 188, 92, <u>7</u> (1) 80	30/11/08/20	avalation salaktivitti etti tillat talat	(3)	44	(4)	72
2.	3, 7, 6, 5, 9, 3, 12, 1, (1) 18	Sec. 35.005.		(3)	-1 ·	(4)	3°
3, 	23, 21, 24, 19, 26, _ (1) 29	of 10 establish	28	(3)	17	(4)	15
4.	5, 12, 23, 50, 141,	4.00 (C. 10 20 0.00)	430	(3)	439	(4)	488
	4, 11, 19, 41, <u>?</u> , (1) 62		108	(3)	79	(4)	90
6.	9, 5, 6, 10.5, 23, <u>?</u> (1) 50		65	(3)	70	(4)	60
7.	1, 20, 58, 134, 286, (1) 600	4387	590	(3)	580	(4)	570
8.	68, 117, 61, 124, 54, (1) 141	2012/1975		(3)	151	(4)	[3]
9.	10, 5, 5, 10, 40, <u>?</u> (1) 350	transferit in	320	(3)	360	(4)	370

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- 10. 8, 7, 12, ? , 128, 635
 - (1) 42
- (2) 24
- (3) 33
- (4) 26

Directions: Questions (11 to 20):

In these questions, there are equations that have become wrong due to incorrect order of signs. From the four alternatives given below, find out the correct order of signs. So that the equations become correct.

- 11. 56 = 7 + 2 16
 - (1) +, ×, +
- (2) -,+,×
- (3) $+,\times,=$
- (4) +,-,-

- 12. $34 \times 2 = 17 \div 34$
 - (1) -,×,÷
- (2) +,+,+
- (3) -, ÷, ×
- (4) +, +, =

- 13. $10 \times 5 = 2 \div 4$
 - (1) +,+,=
- (2) −,±,÷
- (3) ×, -, =
- -(4) =, ×, -

- 14. $210 \div 15 = 15 15$
 - (1) +, -, ×
- (2) +,=,+
- (3) -, ×, ×
- $(4) =, \times, -$

- 15. $900 = 30 \div 2 \times 15$
 - (1) \times , =, +
- (2) +, =, ×
- (3) $+, +, \times$
- $(4) =, \times, \times$

- 16. $729 = 9 + 9 \times 9$
 - (1) +,+,+
- (2) =, ×, ÷
- $(3) =, +, \times$
- $(4) =, \times, \times$

- 17. $15 \div 10 = 2 \times 3$
 - $(1) \times, +, +$
- (2) \times , +, -
- (3) = +, +
- (4) = +, +, +

- 18. 64 + 48 = 4 + 4
- $(1) = +, \times$
- (2) =, -, \times
- (3) +,+,+
- (4) \times, \div, \div

- 19. 30 = 2 + 9 + 12
 - $(1) =, +, \times$
- (2) =, ×, +
- $(3) \leftrightarrow, \times, -$
- (4) +,×,÷

- 20. $196 \div 13 + 13 = 27$
 - (1) =, +, \times
- (2) =, \div , \times
- (3) +, +, +
- $(4) = \times, +$

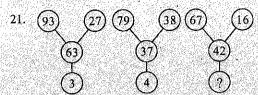
V-101

NMMS(E)



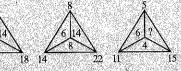
Directions: Ouestions (21 to 30):

In each of the following questions, a set of figures carrying certain characters is given. Assuming that the characters in each set follow a similar pattern, find the missing character in each case.



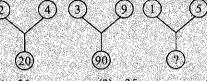
- (1) 5
- (3) 8
- (4) 9

22.



- (1) 8
- $(2)^{6}$ 14
- (3) 10
- (4) 6

23.



- (1) 20
- (2) 25
- (3) 26
- (4) = 75

27 22 50 12 26 13

- 2 (1) 12
- (2) 39
- (3) 18
- (4) 24

25.

- (1) 25
 - (2) 47
- (3) 37
- (4) 41

26.

- (1) 70
- (2) 68
- (3) 56
- (4) 92

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4 - A



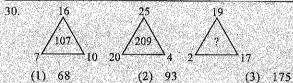
- (1) 41
- (2) 37
- (3) 29
- (4) 25

28.

- (1) 72
- (2) 68
- (3) 82
- (4) 96

- 42 (21) 22 162 (18) 99
- (1) 12
- (2) 13
- (3) 60
- (4) 50

(4) 217



Directions: Questions (31 to 40):

The following questions are based on simple arithmetic calculations. There are four alternatives given under each question. After identifying the right answer, indicate it as per instructions.

- 31. 99999 + 9999 + 999 + 99 = ?
 - (1) 11096
- (2) 111096
- (3) 111196
- (4) 110096

- 32. 778 + 64 214 128 + 174 = ?
 - (1) 705
- (2) 613
- (3) 694
- (4) 674

- 33. 13.141 + 31.417 27.118 = ?
 - (1) 16.441
- (2) 17.543
- (3) 17.490
- (4) 17.440

- (1) 12
- (2) 144
- (3) 14
- (4) 196

- 35. $?^3 + 32 = 54$
 - (1) 318
- (2) 12
- (3) 14
- (4) 16

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- 36. $\sqrt{5^4} \times 14 6 \times 7 + 4^x = 18^2, x =$
 - (1) 1
- (2) 3
- (3) 4
- (4) 2

- 37. $496 \div 0.6 \times 0.5 = ?$ (approximately)
 - (1) 413
- (2) 595
- (3) 148
- (4) 653

- 38. 151.011 419.999 + 649.991 = ?
 - (1) 381.003
- (2) 420.03
- (3) 358.3
- (4) 410.3

- - (1) 2.8
- (2) 4.8
- (3) 5.8
- (4) 6

- 40. $0.009 \times 0.002 = ?$
 - (1) 0.18
- (2) 0.00018
- (3) 0.0018
- (4) 0.000018

Directions: Questions (41 to 50):

In each of the following questions, there are a certain relationship between two given words on one side of:: and one word is given on another side of::, while another word is to be found from the given 4 alternatives, having the same relation with this word as the words of the given pair. Choose the correct alternatives.

- 41. Burn: Ointment:: Grief:?
 - (1) Sorrow
- (2) Adversity
- (3) Consolation
- (4) Pity

- 42. Pen: Stationery:: Chair:?
 - (1) Wood
- (2) Rest
- (3) Room
- (4) Furniture

- 43. Dam: Water:: Godown:?
 - (1) Sweets
- (2) Crab
- (3) Grain
- (4) Grass

- 44. Crime: Court:: Disease:?
 - (1) Lawyer
- - (2) Punishment
- (3) Hospital
- (4) Doctor

- 45. Millionaire: Wealth:: Genius:?
 - (1) Capability
- (2) Smartness
- (3) Intelligence
- (4) Awareness

- 46. Page: Book::Brick:?
 - (1) Heap
- (2) Building
- (3) Clay
- (4) Mason

- 47. Driving: Bus:: Flying:?
 - (1) Air
- (2) Kite
- (3) Bird
- (4) Aeroplane

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- 48. Bullet: Rifle:: Arrow:?
 - (1) Archer
- (2) Bow
- (3) Target
- (4) Cord

- 49. House: Mason::Furniture:?
 - (1) Wood
- (2) Chair
- (3) Table
- (4) Carpentor

- 50. Needle: Thread:: Pen:?
 - (1) Write
- (2) Ink
- (3) Cap
- (4) Paper

Directions: Questions (51 to 60):

In these questions a figure (X) is given with three parts and fourth with a? mark. Find the fourth part from the adjacent figures to complete the figure.













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

52,





(2) 2













(4) 4

53.



(X)

(1) 1











(3) 3



(4)











54.



(1) 1



















(3) 3



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(X)









(1) 1







57.







(2) 2

(2) 2

(2) 2

(2) 2







(4) 4



(1) 1



















(3) 3



















(4) 4

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9-A



Directions: Questions (61 to 70):

In each of the following questions, there are 4 figures. Three of them are similar in a certain way but one is not like the other three. Find out, which one of the figures different from other.

61. (2) (3) (1)(4)

(1) 1. (2) 2

(3) 3

(4) 4

62. (1) (2) (3) (4)

(1) 1

(2) 2

(3) - 3

(4) 4

63. (1) (2) (3) (4)

(1) 1

(2) 2

(3) - 3

(4) 4

64. (1) (2) (3) (4)

(1) 1

(2) 2

(3) 3

(4) 4

65. (3) (4)

(1) 1

(2) 2

(3) 3

(4) 4

<u>o</u> 0 (1) (3) (4) (2) 2

(1) 1

(3) 3

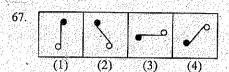
(4) 4

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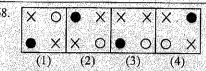


(1) 1

(2) 2

(3) 3

(4) 4

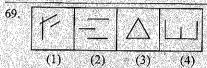


(1) 1

(2)

(3) 3

(4) 4

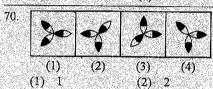


(1) 1

(2) 2

(3) 3

(4) 4



(3) 3

(4) 4

Directions: Questions (71 to 80):

Select from the given 5 alternatives when filled into each other would form a complete square.



(1)



(2)





(1) 1, 4, 5

(2) 2, 3, 4

(4) (3) 1, 3, 4

(4) 2, 3, 5

72.





(4)

(1) 1, 4, 5

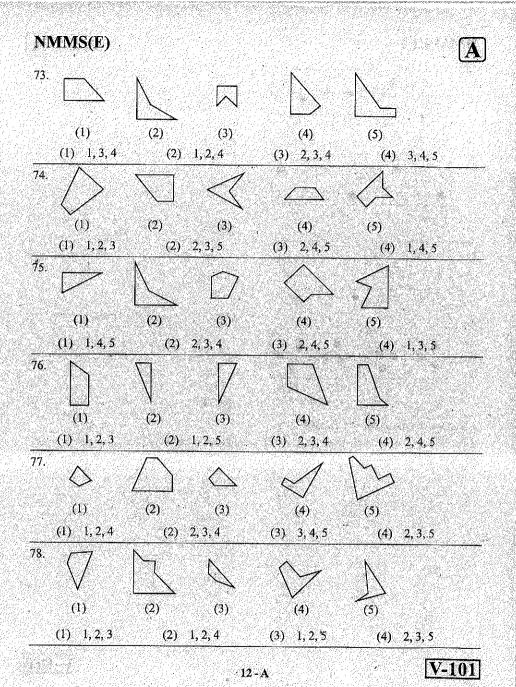
(1)

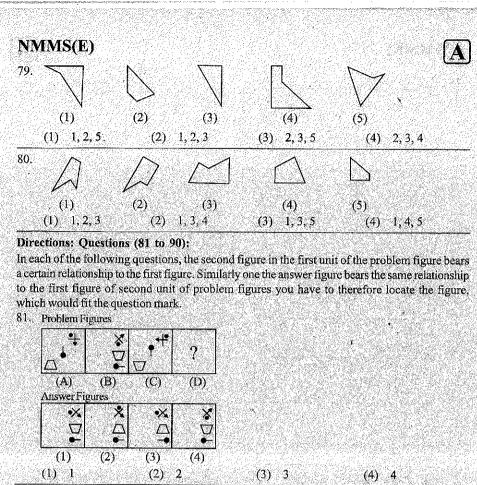
(2) 1, 3, 5

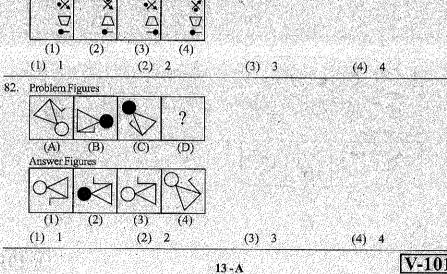
(3) 2, 3, 5

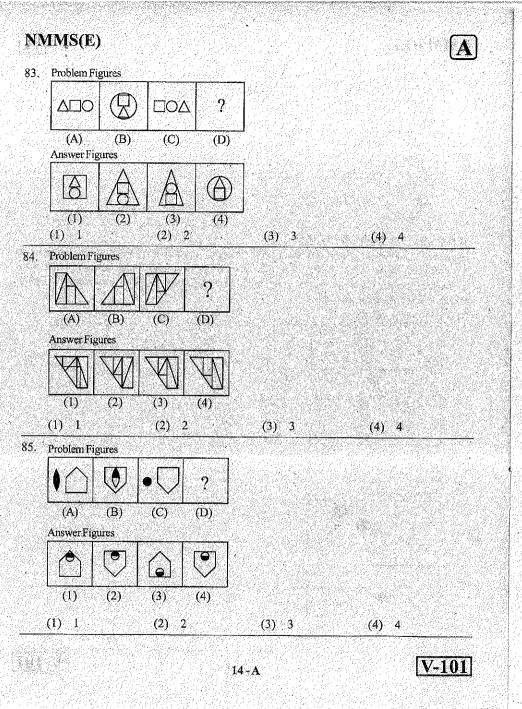
(5) (4) 2, 3, 4

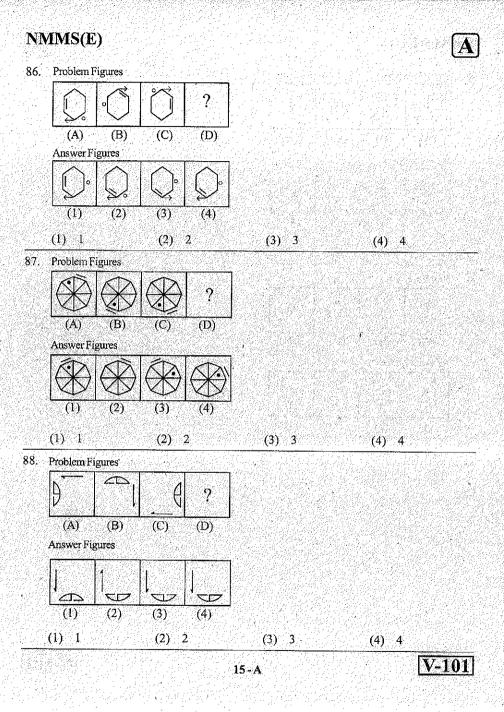
11 - A



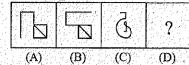




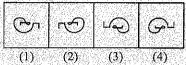




89. Problem Figures



Answer Figures



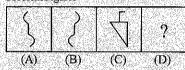
(1). 1

(2) 2

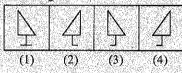
(3) 3

(4) 4

90. Problem Figures



Answer Figures



(1) 1

(2) 2

(3) 3

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(4) 4

SPACE FOR ROUGH WORK

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Part - II: SCHOLASTIC APTITUDE TEST

Time: 90 Minutes

Max. Marks: 90

Note:

i) Subject, Question No. and Marks allotted:

Sl. No.	Subject	Question No.	Marks
1.	Physics	91 to 102	12
2.	Chemistry	103 to 113	11
3.	Biology	114 to 125	12
4.	Mathematics	126 to 145	20
5.	History	146 to 155	10
6,	Geography	156 to 165	10
7.	Political Science	166 to 175	10 f
8.	Economics	176 to 180	05 .

ii) SHADE the circle having the correct alternatives in the OMR Answer Sheet provided, from amongst the ones given against the corresponding questions in the Question Paper Booklet. For shading the circles, use a HB Pencil.

V-i



PHYSICS

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1.	41	. 6	ιXοΙ		77.7		~07	00
1.17	7.5		,,,,		1000	110	1979	C

(1) 36

(3) 20

(4) 68

NL

A, B are two bar magnets as shown in the figure. Let (x, y); (K, L) are the edges of the poles respectively. Then which of the following is true?

(1) y and K attract each other

(2) y and L repel each other

(3) x and K attract each other

(4) x and L attract each other

 θ is the angle between the two plane mirrors attached as shown in the figure. If the system forms 3 images then the value of 0 is

(1) 120° (3) 40°

 $(2) - 96^{\circ}$ (4) 180°



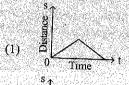
In a house everyday they are using six, 100W bulbs for 3 hours, five 60W bulbs for 6 hours, five 40W bulbs for 2 hours. In the month of August and September let they used in the same way. What is the difference in units consumed by them in these two months?

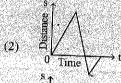
(2) 4000

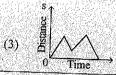
(3) 124

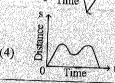
(4) 4

Which of the following graph doesn't indicate the relation of time (t) and distance(s)

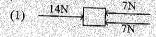




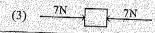




Which of the following system gives 7N as resultant force?



(2)
$$\frac{23N}{15N}$$



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NMMS(E)



97. An object moving in a circular path and covered 3/4th distance on the perimeter of the path to reach from A and B. If 'r' is radius of the circular path, then the ratio between distance travelled and displacement by the object between A and B is

(1) $2\sqrt{2}\pi:3$

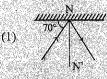
(2) $3\sqrt{2} \cdot 2\pi$

(3) $3\sqrt{2}\pi:2\sqrt{2}$

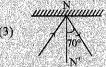
(4) $3\pi:2\sqrt{2}$

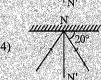


98. A light ray reflected as plane surface and angle of reflection is 70°, which of the following do not represent the same? (NN' is normal to the plane surface)









When a glass rod is rubbed with a silk cloth then charges deposited on them respectively as follows:

(1) Positive charge on silk, negative charge on glass rod

(2) Negative charge on silk, positive charge on glass rod

(3) Positive charge on both

Negative charge on both

100. The reason for hot air moves to upward direction because it:

(1) Occupies larger place, density increases

Occupies smaller place, density increases

(3) Occupies larger place, density reduce

(4) Occupies smaller place, density reduce

101. The intensity of the sound 1000 times more powerful than that total silence is

1000 dB

(2) 3 dB

(3) 60 dB

(4) 30 dB

102. Which of the following is called as "rain gauge"?

(1) Udo meter

(2) Pluviometer

(3) Ombrometer

(4) All the above



CHEMISTRY

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a)	Concentration	n of elect	rolyte unch	nge `				
b)	Mass of the a	node dec	reases					
c)	Mass of the c	athode d	ecreases				1 3,84,64	
d)	Concentration	 2000 D. WARRED 	法国外经济的 化苯甲二甲基甲基	ases				\$v2542000
(1)	a&b	(2)	CONT. MILESPIA CO. L. WARRESTON CO.	(3)	a&c	(5%) (5%) (5%) (5%) (5%)	(4)	c&d
104. Wh	ich of the follow	ving acid	is not hazar	lous to	leink -			
(1)	Concentrated	Nitric-A	cid	(2)	Carboni	e A cid		
(3)	Concentrated:	Sulphurio	Acid	(4)	Hydroc	A CONTRACTOR	68/1/03/19/54/20	
natu	en Magnesium I 1 of powder ash re of this substa Acidic	nce?	dissolved if	water,	a New su	rms N bstanc	lagnesi e is for	um Oxide in t med: What is t
30.00	Acidic	(2) E	Basic	(3)	Neutral	51,54	(4)	Can't confirm
i)	th the following Set A Burning of can	aphor		N AME	6000 9000 9000	Cauchi Hariott	Set B	cal change
(1)	Heating of sug Evaporation of Depositing of c i-d ii-a i-d ii-c	camphoi ine metal iii - c	rplaced on a l on another iv-b	open tra	a solid Iy	a) b) c) d)	Galva Cryst	misation allisation iical change
iii) iv) (1) (2)	Evaporation of Depositing of ci-d ii-a	camphor one metal iii - c iii - a	placed on a on another iv-b iv-b	open tra	a solid iy	b) c)	Galva Cryst	misation allisation
iii) iv) (1) (2) (3)	Evaporation of Depositing of ci - d ii - a i - c	camphoi ine metal iii - c	rplaced on a l on another iv - b iv - b iv - a	open tra	a solid y	b) c)	Galva Cryst	misation allisation
iii) iv) (1) (2) (3) (4)	Evaporation of Depositing of a ii - a ii - c ii - c ii - c	camphorone metal iii - c iii - a iii - b iii - a	rplaced on a l on another iv - b iv - b iv - a iv - b	open tra	iy	b) c) d)	Galva Cryst Chem	nisation allisation ucal change
iii) iv) (1) (2) (3) (4) 77 When coppe (1)	Evaporation of Depositing of a ii - a ii - a ii - c ii - c ii - c ii - c i - c i - c i - c i - c i - c i - c ii - d	camphorone metal iii - c iii - a iii - b iii - a	rplaced on a l on another iv - b iv - b iv - a iv - b	open tra metal 	reenish co	b) c) d) atont	Galva Cryst Chem	nisation allisation ucal change
iii) iv) (1) (2) (3) (4) 77 When coppe (1)	Evaporation of Depositing of a ii - a ii - a ii - c ii - c ii - c ii - d ii - c ii - c ii - d ii - c	camphor one metal iii - c iii - a iii - b iii - a	rplaced on a lon another iv-b iv-b iv-a iv-b	open transcription of the second of the seco	reenish co oxygen ar	b) d) at on t	Galva Cryst Chem hem, di	misation allisation ucal change ucal change
iii) iv) (1) (2) (3) (4) 07 Wher copps (1) (3)	Evaporation of Depositing of a ii - a ii - a ii - c ii - c ii - c ii - d	camphorometal fit - c fit - a fit - b fit - a	rplaced on a l on another iv - b iv - b iv - a iv - b osed to air, w and moisture	open tri metal e find g (2) (4)	reenish co	b) d) at on t	Galva Cryst Chem hem, di	uisation allisation aical change cal change
iii) iv) (1) (2) (3) (4) 07. Wher copps (1) (3) (3)	Evaporation of Depositing of a ii - a ii - a ii - c ii - d ii - c ii - c ii - d ii - c ii - c ii - d ii - c	camphorometal fit - c fit - a fit - b fit - a	rplaced on a l on another iv - b iv - b iv - a iv - b osed to air, w and moisture	open tra metal e find g (2) (4)	reenish co oxygen ar	b) c) d) sat on t nd moi ydroge	Galva Cryst Chem hem, di sture en and i	misation allisation ucal change ucal change

NMMS(E)



(1)	hly mellia Iron		(2)	Zinc	(3)	Gold	(4)	Copper	
10. Ma	ch the fol	llowing							
	Set I					SetII		er di Milifan (1) Littraction (1)	
i)	Rapid c	ombust	ion		a)	Burning of	ANG BURGARYAN		
ii)	Spontar	neous co	ombusti	on	b)	Burning of wood			
	Explosi				c)	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	rning of camphor		
	Combu	13 Refer to 2.17 / 17			. d)	Burning of	white pho	sphorous	
くさいけい かんりょうし	i-c	AND RESIDENCE	iii - a	· 1000年10日 1000年10日 1000年11日 1000年11月 1000年11日 1000年11日 1000年11日 1000年11日 1000年11日 1000年11日 1000年11日			nterakiasiasi Melokatan		
	j-c		H. 6399653971 #6	iv-d	0.500	100, 100, 100		andrei i	
	i-a	经外股 化 医施拉氏虫	10、陈述李 1756年(简连)	格勒勒 不能统法的 诺特	101 M 11 M 160 1 No sandan		gyaratakka Maritaka	Astronomy y	
(4)	i - c	ii - b	iii - a	iv-d	no ne or . Vola e e e e			- 100 TO	
(3) (4)	724 527 646		ALCOHOLD AND THE	indages are made of m					
10		Ц Д			91 Jan 1913	CONTRACTOR	13715945 JA	6338768	
12. <u>-</u>				Q	f monome				
- Th		ment of		o ers in the s	f monome ibove figi	ers) ire indicates		polymer	
- Th	e arranger Nylon	ment of	monon (2)	o ers in the s	f monome	ers) ire indicates	(4)	polymer Bakelit	
Th. (1)	Nylon		(2)	ers in the a	f monome above figu (3)	ers) ire indicates			
Th. (1)	Nylon	Non-T	(2)	o ers in the a PET I renewabl	f monome above figu (3)	ers) ire indicates HDPE			



114. Name the cell that transfers messages				
(1) Bone cell (2) Nerve cell		Muscle cell	CAN	
115. The last level in the food chain is made		v with the cent	(4)	Blood cell
(1) Decomposers	(2)	Consumers		erse (1971 - 1971 - 1971) Valet (1981 - 1984 - 1971 - 1971)
* (3) Producers	(2) (4)		harra	
116. Global grain is	7.7	Trought of the a	auuve	
(1) Wheat (2) Oats	(3)	Pulses		
			(4)	Rice
117 Root nodules of leguminosae family pl (1) Plasmodium (2) Penicillium	iants cont	ains an organis		
		Rhizobium	(4)	Clostridium
		the second section of the second section is	tie date	
	ria (3)	'Neck	(4)	Tail
119. Match the item in Part - I with Part - II		100		
Part-1		Part - II		
a) Vinegar	i)	Calcium hydr	oxide	
b) Baking Soda	ii)	Sodium chlor	îde 🕠	
c) Lime water	iii)	Acetic acid	agrant.	
d) Common Salt	∴ iv)	Sodium bicarl	bonate	
(1) a-iv b-iii c-ii d-i	Eury Dist	e (Pariotras Pasa Antonio	all March	
(2) a-iii b-iv c-i d-ii		A CARTANAME	19.72	
(3) a-ii b-iii c-iv d-i	67 act 3 (LG-1)		16.75.79	
(4) a-ii b-i c-iv d-iii				
120. Instrument used to measure wind speed	and direc	tion.	Wase Tolka	
(1) Thermometer (2) Rain Gauge	(3)	Anemometer	(4)	Periscope
121. Which of the below is a male harmone?	alaw con		1.00 miles	- avracobe
(1) Estrogen (2) Progesteron	(3)	Adrenaline	(4)	APO DE LES PORTO
22. Who invented antibiotic tetracycline?	(4)	ziui channe	(4)	Testosterone
(1) Dr. Jonas Salk		<u>-</u> 275 <u>2</u> 35 248 248		
	(2)	Dr. Yellapragae	la Subb	a Rao
	(4)	Dr. Edward Jer	nner	
23. Prof. J. K. Kurian is popularly known as				
(1) Father of Green revolution	(2)	Father of Whit	e revol	1
(3) Father of Blue revolution	(4)	Father of Biolo	our. Ouroacti	auoir
24. Disease caused by Protozoan	20 (3 N M) - 3	· action of Diole	,gy	
The state of the s	,,,			
	s (3)	Malaria	(4)	Typhoid
25. Normal temperature of the human body				
(1) 98.4° F (2) 96.4° F	(3)	95.4° F	(4)	94.8° F

24 - A

V-101

NMMS(E)

$\overline{\mathbf{A}}$

MATHEMATICS

たしいけん 石がれ からなど と		2. 1. 1. 14 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	化工业工业 经工厂 整二烷烷	artistics of the extension
126. If $\left(\frac{2}{9}\right)^3 \times \left(\frac{2}{9}\right)$	-6 -1 -2m			
	* / O * TIX		The section of the	おってん ようだいさんど
	1 7 1	知 ガラシのく しかげ デモー		ちょうがん コカイン・ケー
176 If V		Lon w		在推过的 化硫酸钠
140-11-24 01-21	a Thank de la	HICH III	Sear Colombia Colo	ねんだいき サファ
	- 1 P 7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	的复数医阴道 医二氏管 经收益额	Company of the State of the	Chartel Call Section
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		打 经保险 经外货运行的证券	a been at the expension of	ting it was a first to
	医二十二烷 十二烷二烷 经工程 化			18 (A) (18 (A) (A) (A)
/1\ 0	(0)	4.7	(0)	e and buildings of
**************************************	12N ×		- (3.6) -	■ Library and Library
(1) 2			(3) -	,共變勢是劉朝帝先先之二年之

- 127. Three numbers are in the ratio 1:2:3. The sum of their cubes is 98784. Then the numbers are
 - (1) 12, 24, 36

(2) 14, 28, 42

(3) 16, 32, 48

(4) 13, 26, 39

128. A boy has 3 boxes of different fruits. Box 'A' weights $2^{1/2}$ kg more than box 'B' and box 'C' weights $10^{1/4}$ kg more than box B. The total weight of the boxes is $48^{3/4}$ kg. Then the weight of box 'A' is

(1) 12 kg

(2) 22¹/₄ kg

 $(3) 34^{1}/_{4} \text{ kg}$

(4) 14¹/₂.kg

129. If A = x% of y and B = y% of x then which of the following is true?

(1) A < B

(2) A>B

(3) A=B

(4) If $x \le y$ then A > B

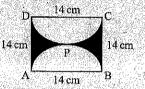
130. From the adjacent figure area of shaded region is

(1) 42 cm²

(2) 196 cm²

(3) 154 cm²

(4) 350 cm²



(4) 0

131. Two natural numbers are such that their product, sum and difference are in the ratio 24;7:1. The product of the two numbers, is

(1) 48

(2) 24

(3) 12

(4) 16

132. The population of a town 2 years ago was 62500. Due to migration to cities, it decreases every year at the rate of 4% per annum. The present population is

(1) 60,600

(2) 12,500

(3) 10,000

(4) 57,600



- 133. Ramu was given an increment of 10% on his salary. His new salary is ₹3575. The salary of Ramu before increment is
 - (1) ₹ 3217.50

(2) ₹ 3250

(3) ₹ 3932.50

- (4) ₹ 3500
- 134. If $\frac{1}{x+1} + \frac{1}{x+2} = \frac{2}{x+10}$ then x =
 - (1) $\frac{-26}{17}$
- (2) 1

- 135. If the mean of a, b, c is M and ab+bc+ca = 0. Then mean of a^2 , b^2 , c^2 is
 - (1) $4 \,\mathrm{M}^2$

(2) 5 M^2

 $(3) 3 M^2$

- $(4) M^2$
- 136. A right angled triangle has all its sides are intersects and its area is 30 sq.cm, then the perimeter of the triangle in ems. is
 - (1) 30
- (2) 42
- (3) 64
- (4) 45

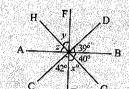
- 137. The value of $\frac{2^n + 2^{n-1}}{2^{n+1} 2^n}$ is

(2) $-\frac{3}{2}$

 $(4) 2^n$

26 - A

- 138. From the figure |x+|y=
 - (1) 116°
 - (2) 120°
 - (3) 99°
 - (4) 118°



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- 139. A certain amount of marbles are given to three students P, O and R in the ratio 3:4:5. If P and Q receive a total of 315 marbles then the marbles received by R
 - (1) 225

(2) 79

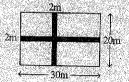
(3) 105

- (4) 300
- 140. Product of $\left(1 \frac{1}{2}\right) \left(1 \frac{1}{3}\right) \left(1 \frac{1}{4}\right) \dots \left(1 \frac{1}{p}\right) =$
 - (1) 1

(3) $\frac{p-1}{p}$

- 141. The least number which when divided by 16, 18, 21 leaves remainders 3, 5 and 8 is
 - (1) 1008
- (2) 995
- (3) 1021
- (4). 990
- 142. The mean of 5 numbers is 27. If one more number is included then the mean is 25. The included number is
 - (1) 15
- (2) 57
- (3) 52
- (4) 17

- 143. If (4x+5): (3x+11) = 13:17 then x =
 - (1) -2
- (2) 122
- (3) 2
- (4) 1
- 144. Sonu's father is thrice as old as Sonu. After 12 years he will be just twice his daughter. Then the Sonu's present age is (years)
 - (1) 10
- (2) 12
- (3) 15
- (4) 11
- 145. A rectangular lawn is 30 m by 20 m. It has two roads each 2m wide running in the middle of it as shown in the figure. Then the area of roads is
 - (1) 96 m²
 - (2) 100 m²
 - (3) 600 m²
 - (4) 504 m²





HISTORY

(1) Columbus (2) Vasco da Gama (3) Magellan 147. A temple for goddess nishumbhasudini was built by: (1) Vijayalaya (2) Aditya (3) Rajendra I 148. "	(4) and the s and orses,	d clothes of eve fruits, vegetable
148. "	and the	nese houses belo d clothes of eve fruits, vegetable
wood etc" - Whose description was this about Vijayanagara City? (1) Nuniz (2) Paes (3) Abdul Razzak 149. Which of the following was the division of share in profits between Ia	orses,	fruits, vegetable
149. Which of the following was the division of share in profits between Ja		Nicolo Conti
	amec I	Wattand Doub
	2 2 4 2 1 2 1	SERVICE CONTRACTOR OF THE SERVICE OF
(3) $\frac{2}{3}$ to Boulton and $\frac{1}{3}$ to watt (4) $\frac{3}{4}$ to Boulton an	$ \operatorname{id} \frac{1}{4} f $	to watt
150. Who among the following was not one of the 'Astadiggajas'?		State Control
(1) Ramataja Brushana (2) Ayyalaraju Ramal (3) Pingali Surana (4) Payuluri Mallana	bhadr	udu
51. The last Mughal Emperor was:	of production	STREETING TO STREET
(1) Aurangzeb (3) Muhammad Shah Zafar (4) Bahadur Shah Zaf	ıfar far	
52. Zabt' was not possible in these provinces:	ıaı	<u> </u>
(1) Gujarat only (2) Bengal only (3) Both Gujarat and Bengal (4) None of these		
53. Under which settlement was every piece of land given a survey numbe of that was fixed?	rand	legal ownership
(1) Ryotwari settlement (2) Permanent settler (3) Both of these settlements (4) None of these	nent	
54. The First World War broke out in: (1) 1914 (2) 1916 (3) 1918 (4)		020
55. In which session of the Congress was it declared that the objective of achieve Swarajya by all legitimate and peaceful means?	4) 1 the C	ongress was to
(1) Dombay (2) Ampiteur (2) r	4) N	lagpur

NMMS(E)



GEOGRAPHY

156.	Out	of the following	wher	e does it rain ver	y heav	vily?		
	(1)	on the mountai	ns		(2)	on the plain	S	
	(3)	on the plateaus			, (4)	on the ocean	18	
157.	Med	literranean sea se	parat	es:				
	(1)	Asia and Ameri	ca		(2)	Africa and A	ustralia	
internal	(3)	Europe and Asi	a		(4)	Europe and	Africa	a a secondaday
158.	Pol	der' type of agric	cultur	e is practiced pro	edomi	nantly in:		
	(1)	England	(2)	Poland	-(3)	Holland	(4)	Spain
159.	Whi	ch of the followi	ng wa	s an independen	teoun	try by 1913?		
Ţ	(1)	Liberia	(2)	Nigeria	(3)	Egypt	(4)	Angola
160.	If th	e average annual	rainf	all is 110 centim	eters,	then it will be	consider	ed as:
	(1)	Low rain fall			(2)	Moderate ra		
100	(3)	High rain fall			(4)	Very high ra	in fall	and the state of t
161.	The	day which is call	ed an	equinox is:			1 TO 1 SO 1 SO 1	er og skriver en skriver. Grand og skriver og skriver
	(1)	March 21	(2)	September 22	(3)	June 21	(4)	December 22
162.		hich of the follower location?	wing s	ets, are the place	es arra	nged from so	uth to noi	th with reference
	(1)	Nigeria, France	, Arcti	e Tundra	(2)	Arctic Tund	ra, France	, Nigeria,
	(3)	France, Nigeria	, Arcti	ic Tundra	(4)	Arctic Tund	ra, Nigeri	a, France
163.	Mos	t of the forests o	f And	hra Pradesh fall	in this	category:		regent of the second
	(1)	Deciduous fore	sts		(2)	Thorny fore	sts	
	(3)	Evergreen fore	sts		(4)	Mangrove fo	orests	
164.	The	Sun never sets in	Tund	ra region throug	h out:	Ross Service of	E 15, 561	
	(1)	February, Marc		SP 1966 TORS SPECIFICATION OF THE SPECIFICATION OF	(2)	May, June ar	nd July	
	(3)	August, Septem	ber ar	id October	(4)	November, I	December	and January
10 E&C	CASE WATE	NAMES OF BUILDING	E-10 Me 20 144	50,853 (\$456) Varian (\$2.55)	. No. (201	ENGRES CONTRACT	0.00	
165.	Alur	ninum is extracto	ed from	\mathbf{n} :	orber 1900.		Co. Co. Jat.	



POLITICAL SCIENCE

166. The National Voters (1) November 25	·/(2)·	December 25	(3)	January 25	(4)	Data da
167. The President of Indi- article:	a appo	oints the Chief F	Electio	n Commissio	ner under	February 25 the constitutiona
(1) 324(2)	(2)	324(4)	(3)	324(6)	(48	
168. The sentence "May G (1) India				ritten in the p	reamble (4)	of constitution of
169. In India, who among t (1) President (3) Vice President 170. Uttar Pradesh has 80 L constituencies. The real			ected (2)	directly? Members of	Lok Sabl	200
 Uttar Pradesh is a Uttar Pradesh has Uttar Pradesh is a There is not any s Which of the following Bail is not a right FIR is filed in the 	plain a larg devel pecifi sente of the	region while Meer population wooped region while reason for this ences is correct accused.	leghal thile N tile Ma s.	aya is a moun	tainous r	egion.
(4) All the civil and cr	imina	l cases are take	n up b	y the police		
172. A law making it compul- state of:	sory to	o give official ir	iforma	ition was mad	e for the	first time in the
(1) Rajasthan (2) G1	ujarat (3) т	anvilnada	49 9-3	ndhra Pradesh
173. Which of the following s (1) Andhra Pradesh (2)	0.0010.00000	iangana (jι Μ	aharactro	re?	
74. During national emergence (1) 3 months (2)					ate can b (4) 12	e extended by: months
75. The first headmistress of(1) Savitri Bai Phule(3) Rama Bai Saraswath	V	(2) Ta	or girls was ra Bai Shinde anta Bai Kaml		
		30-A				V-101

NMMS(E)



ECONOMICS

10.29	(1) (2)	The Finar	ice Ministe	er of India	of hundred					
	(3)		dent of Ind	1a serve Bank	a61-422					
	(4)		's of Natio		or mara					
77.	Wh	ich of the fo	ollowing is	the most in	nportant con	itributor to	poverty in	India?		
	(1)	Laziness	of the peop	ole	(2) Lack of regular employment					
	(3)	Mal nutrit	ion		(4)	Giving in	portance to	agriculture		
78.	Wh	ch constitu	tional artic	le mention:	s about 'Rig	ht to Work	19			
	(1)			21	(3)	一种 不管 化硫酸钠 电电影电影	(4)	17		
79.	Fór	how many l	ours does	a paper mil	l run in a da	v?				
	(1)		\$ \$1.00 POST \$1.00 POST \$1.00	12	(3)		(4)	24		
80.	Consider the following statements and select the correct answer using the code gives									
	pero	W .	Section (ara a stat					
	A) B)	Public Ira	nsport can	help in redi	ucing pollut	ion.				
	(1)	Only A is		eat beits ca	n avoid mar	ly life risks				
200	(2)	Only B is								
		Both A and		réct						
	A 1	A STATE A CONTRACTOR	nor B is co	横尖的 凯 化二烷 医动物 化对抗	3的对话中的 化扩					