NMMS - FEBRUARY 2021

MENTAL ABILITY AND SCHOLASTIC APTITUDE TEST

Time Part - I: 90 Minutes
Time Part - II: 90 Minutes

Maximum Marks: 90

Maximum Marks: 90

Instructions to the Candidates

Read the following instructions carefully before you answer the questions. Answers are to be SHADED on a SEPARATE OMR Answer Sheet given, with a Blue or Black Ballpoint Pen only. Read the Instructions printed on the OMR Sheet carefully before answering the questions.

- 1. Please write your Center 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 Center 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 Center 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.
- 5. Begin with the first question and keep trying one question after another till you finish both the Parts.
- 6. If you do not know the answer to any question, do not spend much time on it and pass on to the 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 it after the completion of the examination. No candidate should leave the examination hall before the end of the examination.

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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 Blue or Black Ballpoint Pen.

Direction: Questions (1 to 10):

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

14 5 10 1.

(1) 2

(2).5

- (3) 4
- (4) 18

594 198 66

(1).11

(2) 12

- (3) 22
- (4) 33

406 5 3 81

5

4

(1) 1

3

- (2) 731
- (3) 1625
- (4) 2031

13

- 17

(1) 2

12 (2) 6

5

- 15
 - (3) 8
- (4) 64

5.

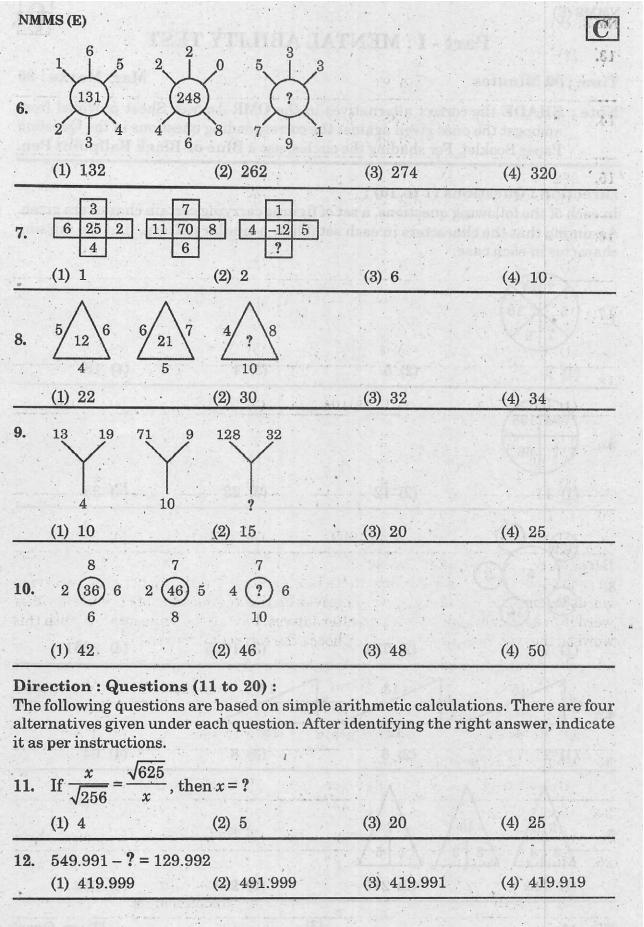


(1) 125

- 49 3
- (2) 215

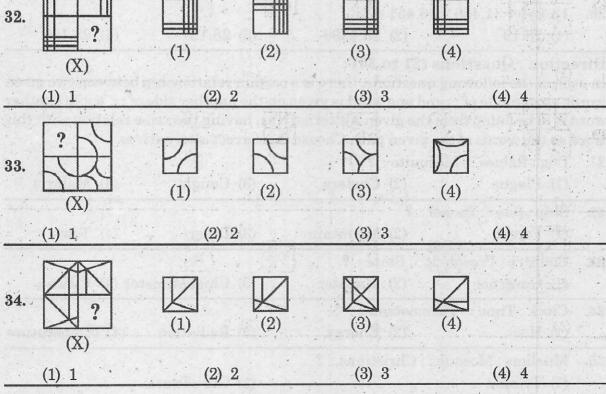
?

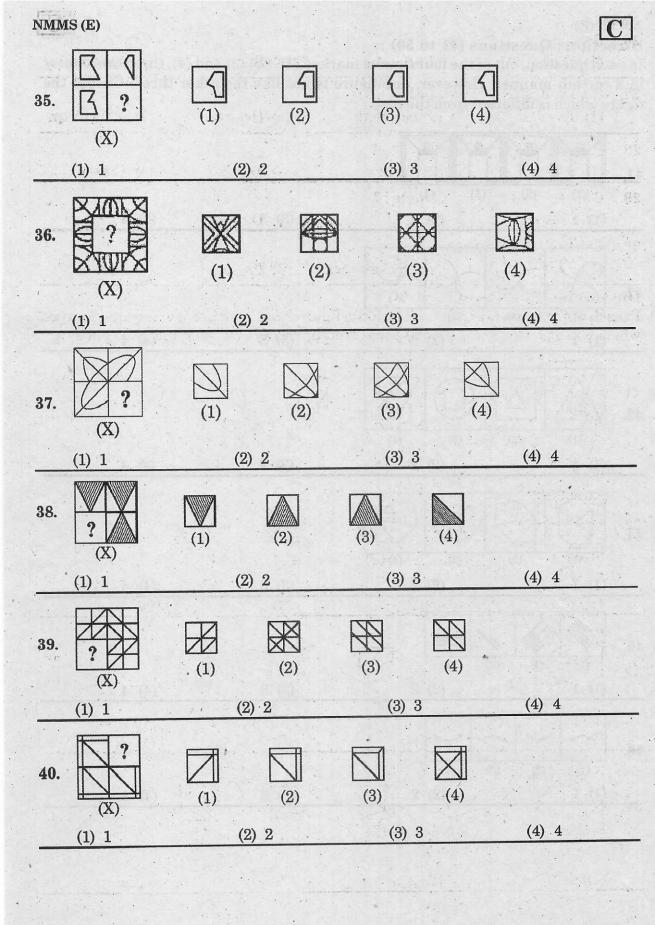
- (3) 251
- (4) 512



MM	IS (E)							\mathbf{C}
13.	$(?)^3 \div 27 = 27$							
	(1) 9	(2)	81		(3)	729	(4)	3
14.	88888 + 8 + 88 + 8888	3 + 8	888 = ?), (32)			Times.	
	(1) 9876	(2)	98760	.11	(3)	98766	(4)	98666
15.	$992 \div 0.4 \times 0.5 = $?	NEW Y						
odrogod o	(1) 1204	(2)	1200	a returne :	(3)	1202	(4)	1240
16.	$(2^0 + 3^0) \times 4^0 = ?$							
	(1) 2	(2)	3		(3)	4	(4)	6
17.	$\frac{\left(54\right)^2 - \left(45\right)^2}{54 + 45} = ?$							
	(1) 1	(2)	4		(3)	9	(4)	25
18.	$0.013 \times 0.0008 = $?				•//			
- military	(1) 0.00001,04	(2)	0.000104	ore i mane active	(3)	0.00104	(4)	0.0104
19.	$\frac{\left(4\right)^3 + \left(6\right)^2}{25} = ?$							
	(1) 4	(2)	6		(3)	10	(4)	5
20.	13.194 + 31.456 - 16. (1) 28.19		= ? 28.1999		(3)	28.191	(4)	28.199
In e wor wor wor	ection: Questions (2) ach of the following que ds on one side of:: and d is to be found from the d as the words of the girlog: Rabies:: Mosque (1) Plague	estic one e given ven	ons, there is word is give ven 4 alterna pair. Choose	n on t	he , ha corr	another side ving the sam	of : :, w e relat ves.	hile another
22.	Ship: Sea:: Camel:							100000000000000000000000000000000000000
	(1) Forest	(2)	Mountain	•	(3)	Desert	(4)	Town
23.	Country: President: (1) Governor		ate:? Minister		(3)	Chief Minis	ter (4)	Citizen
24.	Clock: Time:: Therr (1) Heat	*	eter: ? Energy		(3)	Radiation	(4)	Femperature
25.	Muslims: Mosque:: (1) Temple (3) Church	Chr	istians: ?	edicks		Gurudwara Golden tem	ple	
KS	- 11		[5]				[Turn Over]

	MS (E)	D 1 0					©
26.	Seeds: Plants (1) Roots		Leaves	(3)	Stem	(4)	Flowers
27.	Court : Justice (1) Teacher		? Student	(3)	Head Maste	er (4)	Education
28.	Patient : Docto (1) School		t:? Book	(3)	Teacher	(4)	Class
29.	Garden : Gard (1) Priest		iple : ? God	(3)	Devotee	(4)	Prophet
30.	Cricket: Bat: (1) Field		? Hockey st	ick (3)	Player	(4)	Bail
	ach of the follow ch when placed ? (X)				C) would con		he pattern.
32.	(X)	(1)	(2)	(3)	(4)		
33.	(1) 1	(2)	2	(3)	3	(4)	4





Direction: Questions (41 to 50):



In each question, out of the four figures marked (1), (2), (3) and (4), three are similar in a certain manner. However, one figure is not like the other three. Choose the figure which is different from the rest.

41. (2)(3)(1)(4)

(2) 2(1)

(3) 3

(4) 4

42. (1) (2) (3) (4) (1) 1(2) 2

(3) 3

(4) 4

43. (1) (2)(3)(4) (2) 2

(1) 1

 $(3) \cdot 3$

(4) 4

(2) (3) (4)

(1) 1

(2) 2

(3) 3

(4) 4

(2) (3) (1)

(1) 1

(2) 2

(3) 3

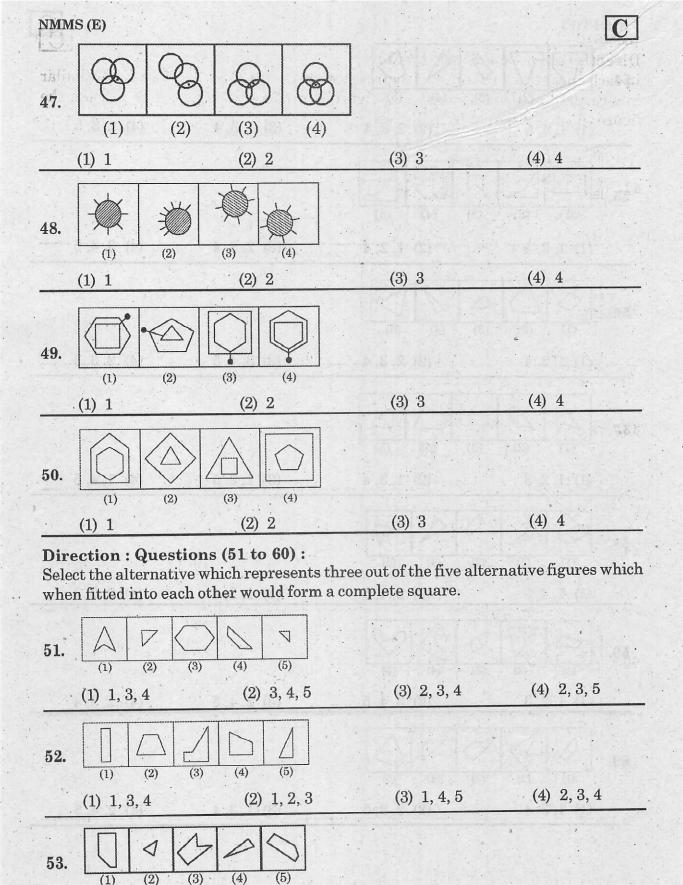
(4) 4

46. (2) (3) (4) (1) $(1) \cdot 1$

(2) 2

(3) 3

(4) 4



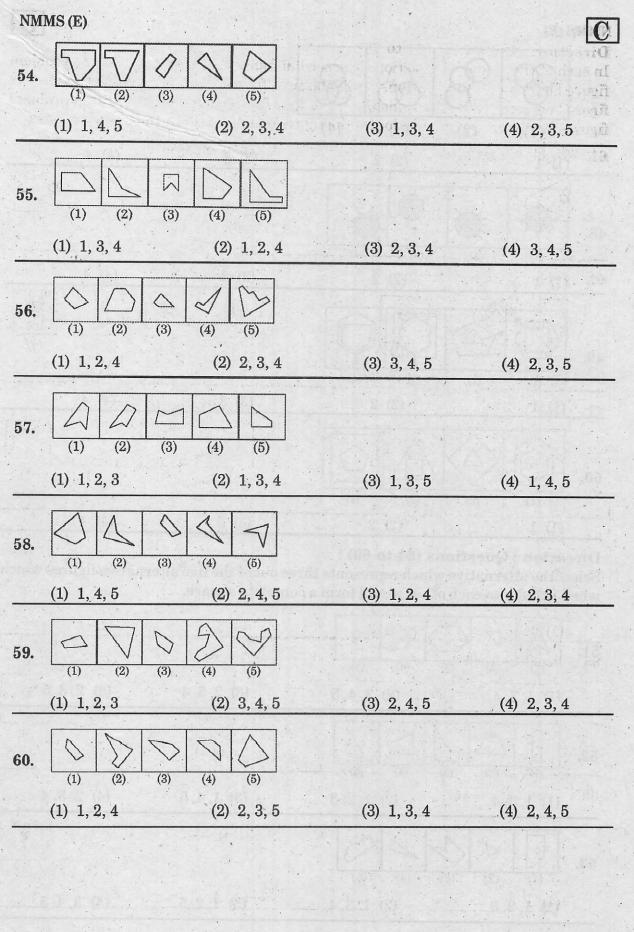
(1) 1, 2, 3

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(2) 1, 3, 4

(4) 3, 4, 5

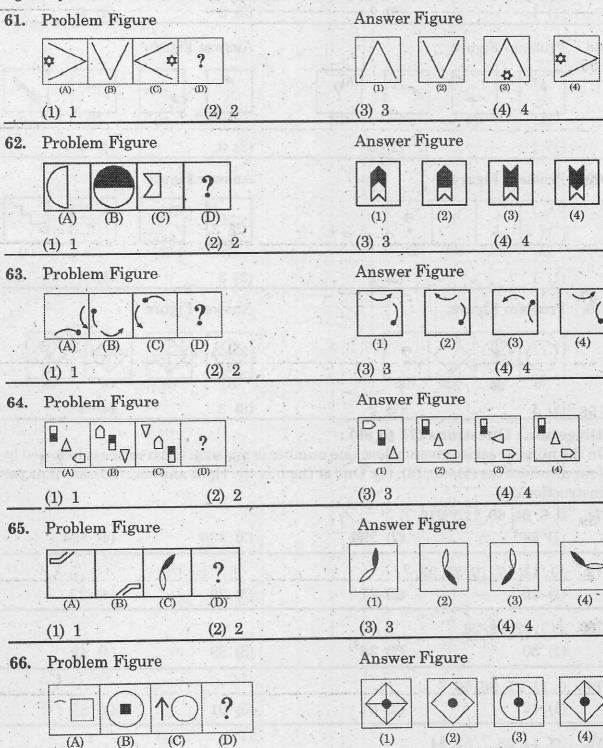
(3) 1, 2, 5



C

Direction: Questions (61 to 70):

In each of the following questions, the second figure in the first unit of the problem figure bears a certain relationship to the first figure. Similarly one of the answer figure bears the same relationship to the first figure of the second unit of problem figures you have to therefore locate the figure which would fit the question mark.

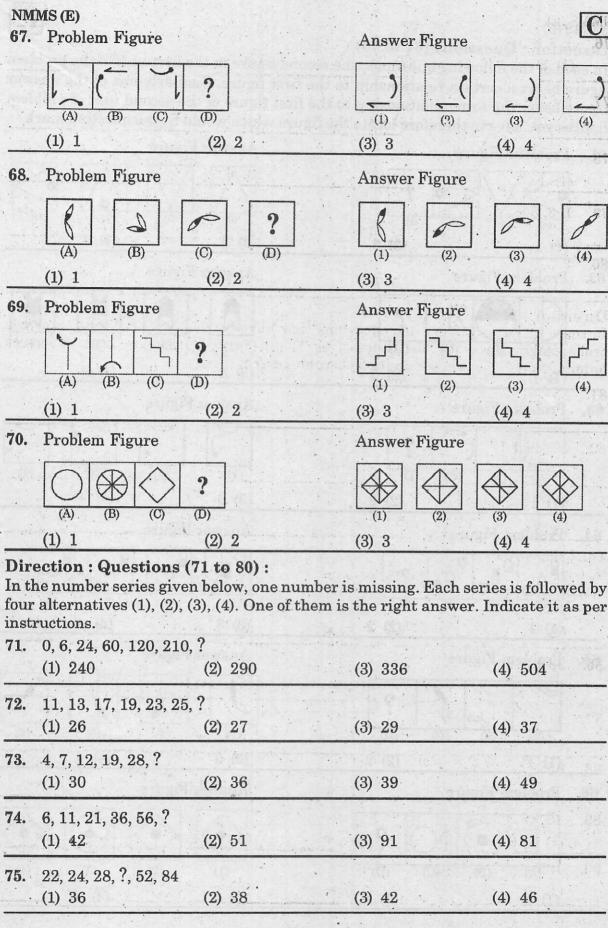


(4) 4

(2) 2

 $(3) \ 3$

(1) 1



1 3	(S (E) 0, 2, 8, 14, ?, 34	97		•			C
	(1) 20	(2)	23	(3)	24	(4)	25
77.	1, 5, 13, 25, 41, ? (1) 51	(2)	57	(3)	61	(4)	63
78.	4, 6, 12, 14, 28, 30, ?	(9)	60	(3)	62	(4)	64
a construction	(1) 12	(2)	60	(0)	02	(+)	04
79.	1, 3, 3, 6, 7, 9, ?, 12, 2. (1) 10		11	(3)	12	(4)	13
80.	2, 5, 9, 19, 37, ? (1) 73	(2)	75	(3)	76	(4)	78
In thorde orde	ection: Questions (8) hese questions, there are of signs. From the four of signs, so that the expression $25-10=2+33$	are ir al	equations that hat ternatives (1), (2)	(3)	, (4) given below	due , fin	to incorrect
01.	(1) -, =, +	(2)	+, -, =	(3)	=, -, +	(4)	=, +, -
	56 - 4 + 12 = 8 (1) +, ×, =	(2)	x,=,+	(3)	=, x,+	(4)	+, ×,
83.	676 -26 = 4 + 30 (1) ÷, +, =	(2)	+, ÷;=	(3)	=, ÷,+	(4)	+,=,÷
84.	$300 - 30 \times 15 = 150$ (1) \times , \div , =	(2)	÷, ×,=	(3)	`=, ÷, x	(4)	×,=,÷
85.	25 + 15 = 5 + 75 (1) =, ÷, ×	(2)	÷,=,×	(3)	=, ×, ÷	(4)	×, ÷,=
86.	56 + 8 - 16 = 3 (1) x, +, =	(2)	+, =, ×	(3)	=, +, ×	(4)	=, ×,+
87.	$210 = 15 + 7 \times 98$ (1) ÷, ×, =	(2)	×, ÷,=	(3)	=, ×, ÷	(4)	÷,=,×
88.	$65 + 7 = 63 \times 5$ (1) =, +, -	(2)) -,+, ×	(3)	+, -, ×	(4)	+, ×,=

 $(2) \div = +$

(3) x, =, +

89. $40 + 8 \times 3 = 2$

 $(1) = + + \div$

 $(4) +, \times, =$

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 questions	12 Marks
(2)	Chemistry	103 to 113 questions	11 Marks
(3)	Biology	114 to 125 questions	12 Marks
(4)	Mathematics	126 to 145 questions	20 Marks
(5)	History	146 to 155 questions	10 Marks
(6)	Geography	156 to 165 questions	10 Marks
(7)	Political Science	166 to 175 questions	10 Marks
(8)	Economics	176 to 180 questions	05 Marks

ii) 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 Blue or Black Ballpoint Pen.

PHYSICS



91. Assertion (A): Alcohol is used as one of the liquid to measure temperature in thermometers.

Reason (R): Its expansion per degree celsius rise in temperature is very low.

Then choose the CORRECT among the following:

- (1) Both A and R are true and R is the correct explanation of A.
- (2) Both A and R are true but R is not the correct explanation of A.
- (3) A is true and R is false.
- (4) A is false and R is true.

92. Which one of the following is NOT an oscillatory motion?

- (1) Spinning of top
- (2) Motion of vibrating string in guitar
- (3) To and fro motion of a swing
- (4) Motion of ringing bell

93. Car A: Travelled a distance of 150 m in 10 sec.

Car B: Travelled a distance of 180 m in 30 sec.

Then the ratio of speeds of car A to B is

- (1) 5:2
- (2) 5:3
- (3) 2:5
- $(4) \ 3:5$

94. A: Mirrors used by dentist

B: Torches

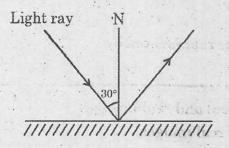
C: Head lights of motor vehicles

D: Rear view mirrors

In the above situations where we use concave mirror?

- (1) A, D, C
- (2) B, D, C
- (3) A, B, C
- (4) B, D, A

95.



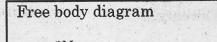
The angle between incident ray and the reflected ray is

 $(1).30^{0}$

- $(2) 90^0$
- $(3) 60^0$
- $(4) 0^0$

C

96. Match the following:



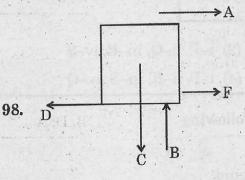
Magnitude of resultant force

- $i) \xrightarrow{8N} \longrightarrow$
- P) 6 N
- ii) $\stackrel{8N}{\longrightarrow}$
- Q) 10 N
- iii) $\frac{7N}{8N}$ $\stackrel{5N}{\longleftarrow}$
- R) 0 N
- iv) 15N
- S) 16 N
- (1) i-S, ii-R, iii-Q, iv-P (3) i-S, ii-Q, iii-R, iv-P
- (2) i S, ii Q, iii P, iv R (4) i - R, ii - S, iii - Q, iv - P
- 97. Which of the following is NOT a field force?
 - (1) Magnetic force

(2) Electrostatic force

(3) Normal force

(4) Gravitational force



In the above diagram friction is represented by

(1) D

(2) B

- (3) C
- (4) A
- 99. P: Concave mirror forms virtual and real images.
 - Q: Convex mirror forms only real images.
 - R: Image in a plane mirror is laterally inverted.
 - Choose the CORRECT statements.
 - (1) P, Q, R
- (2) P, R
- (3) P, Q
- (4) Q, R

C

100. Assertion (A): We feel sweaty in some coastal regions in hot summer days.

Reason (R): If the humidity is high we feel sweaty.

Choose the CORRECT statement.

- (1) Both A, R are true and R is the correct explanation of A.
- (2) Both A, R are true but R is not the correct explanation of A.
- (3) A is true and R is false.
- (4) Both A and R are false.

101. Match the following:

	Column A		Column B
i.		Р.	Switch off
ii.	~~	Q.	Battery
· iii.		R.	Bulb off
iv.		S.	Fuse

(1) i-P, ii-Q, iii-S, iv-R

(2) i-P, ii-Q, iii-R, iv-S

(3) i-Q, ii-S, iii-P, iv-R

(4) i-P, ii-R, iii-S, iv-Q

102. Identify the CORRECT statements of the following:

P: Heat is a form of energy.

Q: Bromine is used in thermometer as a liquid.

R: Thermometer is used to measure the temperature of objects.

S: The normal temperature of human body is 35°C.

- (1) P, S
- (2) P, Q
- (3) Q, R
- (4) P, R

CHEMISTRY

103. The acid injected in our body during ant bite is

- (1) Acetic acid
- (2) Formic acid (3) Tartaric acid
- (4) Steric acid

104. A: Sugar

B: Washing soda

C: Baking soda

D:Starch

Which of the above are NOT salts?

- (1) A, C.
- (2) B, C
- (3) C, D
- (4) A,D

105. Match the following:

Resin	Code number					
i) PVC	P) 2					
ii) LDPE	Q) 6					
iii) HDPE	R) 3					
iv) PS	S) 4					

- (1) i P, ii Q, iii S, iv R
- (2) i R, ii S, iii P, iv Q
- (3) i Q, ii P, iii R, iv S

(4) i - R, ii - P, iii - S, iv - Q

106. Which of the following elements are highly malleable?

- A: Carbon
- B: Silver
- C: Sulphur
- D: Gold

- (1) A, B
- (2) B, D
- (3) B, C
- (4) C, D

107. P: The synthetic fibre used in sweaters is acrylic.

Q : Acrylic is generally called "Fake fur"

- (1) Both P and Q are correct
- (2) Both P and Q are wrong
- (3) P is correct and Q is wrong
- (4) P is wrong and Q is correct

108. Which metal is used in Galvanization process?

- (1) Zinc
- (2) Copper
- (3) Silver
- (4) Gold

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109. Find the odd one:

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- (1) Iron
- (2) Gold
- (3) Carbon
- (4) Silver
- 110. The substance used to prevent browning while cutting vegetables into pieces

is

(1) Sulphuric acid

(2) Hydrochloric acid

(3) Nitric acid

(4) Ascorbic acid

111. Match the following:

	Column A	Column B
i)	Preparation of Pickles	P) Oxalic acid
ii)	Cool drinks	Q) Sulphuric acid
iii)	Batteries	R) Carbonic acid
iv)	Removal of ink stains	S) Acetic acid

- (1) i S, ii Q, iii P, iv R
- (2) i S, ii R, iii Q, iv P
- (3) i S, ii P, iii R, iv Q
- (4) i P, ii R, iii S, iv Q

- 112. P: Mercury is metal.
 - Q: Mercury is sonorous.
 - (1) Both P and Q are correct
- (2) Both P and Q are wrong
- (3) P is correct and Q is wrong
- (4) P is wrong and Q is correct
- 113. Convert the temperature 273°C in Kelvin scale.
 - (1) 0 K

- (2) 546 K
- (3) 300 K
- (4) 273 K

BIOLOGY

114. Soil with large particles is(A)..... and with small particles is(B).....

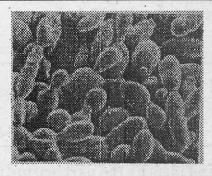
(1) (A) Clay, (B) Sand

(2) (A) Clay, (B) Loam

(3) (A) Loam, (B) Sand

(4) (A) Sand, (B) Clay

115.



The type of reproduction that occurs in this organism is

(1) Sexual reproduction

(2) Asexual reproduction

(3) Vegetative propagation by leaves

(4) Vegetative propagation by stem

116. Statement (A): 9 Cartilagenous bones are present in the voice box of humans.

Statement (B): A protruding, swollen out growth seen at the throat region is thyroid cartilage.

(1) Only (A) is correct.

(2) Both (A) and (B) are wrong.

(3) Both (A) and (B) are correct.

(4) Only (B) is correct.

117. Which of the following diseases can be prevented by Vaccines?

A) Swineflu

B) Diphtheria

C) Hepatitis

D) Malaria

(1) A) and B)

(2) B) and C)

(3) A), B) and C)

(4) All of these

118. Match the following:

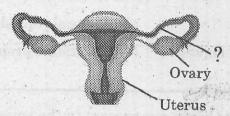


- i) Motor vehicles
- ii) Aerosols
- iii) Power Generating Centers
- iv) Industries

- P) Sulphur dioxide
- Q) Carbon monoxide
- R) Chlorine
- S) Chlorofluorocarbons
- (1) i Q, ii R, iii S, iv P

(2) i-Q, ii-S, iii-P, iv-R

- (3) i R, ii S, iii Q, iv P
- (4) i P, ii Q, iii R, iv S
- 119. Observe the given diagram and identify the part arising from each ovary.



- (1) Uterus
- (3) Egg

- (2) Fallopian tubes
- (4) Seminal tubules
- 120. Assertion (A): Drones die after mating.

Reason (R): Abdomen bursts at the time of reproduction.

- (1) (R) is not the correct explanation for (A).
- (2) (R) is the correct explanation for (A).
- (3) (A) is not correct.
- (4) (R) is not correct.
- - (1) (1) November, (2) Kharif, (3) November, (4) Rabi
 - (2) (1) October, (2) Rabi, (3) October, (4) Kharif
 - (3) (1) October, (2) Kharif, (3) October, (4) Rabi
 - (4) (1) November, (2) Rabi, (3) November, (4) Kharif

122. Identify the CORRECT order of the stages of making of woolen clothes.

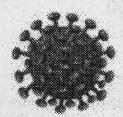
- (1) Shearing, Sorting, Carding, Scouring
- (2) Sorting, Shearing, Scouring, Carding
- (3) Shearing, Scouring, Sorting, Carding
- (4) Sorting, Scouring, Carding, Shearing

123. It is observed that the layers in the soil are arranged as

 $O \rightarrow A \rightarrow E \rightarrow B \rightarrow C \rightarrow R$ horizons. Identify the components of horizon 'C'.

- (1) Humus
- (2) Mineral Salts, Humus
- (3) Less amount of Humus
- (4) Sand and Clay

124.





Identify the CORRECT statements pertaining to the above shown organisms:

- (A) They can be seen through ordinary microscopes.
- (B) They behave like non-living things when they are outside a living cell.
- (C) They cause diseases like AIDS.
- (1) (A) and (B)
- (2) (A) and (C)
- (3) (B) and (C)
- (4) (A), (B) and (C)

125. Which of the following statements is CORRECT?

- (1) Seeds of Orchids are heavier.
- (2) Seeds of Dandelion disperse through water.
- (3) Seeds of Dolichos (Beans) disperse through the dehiscence of fruits.
- (4) There is no relation between the weight of the seeds and their dispersal.

MATHEMATICS



126.

 $\frac{0.02247 \times 0.384 + 0.02247 \times 0.616}{0.07 \times 1.583 - 0.07 \times 0.583}$

- (1) 0.321(2) 321

(3) 3.21

(4) 0.0321

127. Which of the following data has same value for mean, median and mode?

- (1) 4, 4, 4, 4, 8
- (2) 2, 6, 6, 6, 10
- (3) 2, 2, 4, 10, 12
- (4) 2, 2, 2, 4, 10

128. Assertion (A): If the 4 angles of a quadrilateral are

$$x^{0}$$
, $(x+10)^{0}$, $(x+20)^{0}$, $(x+30)^{0}$, then the value of $x=75^{0}$.

Reason (R): Sum of the four angles of a quadrilateral is 180°.

Now choose the CORRECT answer.

- (1) Both (A) and (R) are true and (R) supports (A).
- (2) Both (A) and (R) are true but (R) doesn't support (A).
- (3) (A) is true but (R) is false.
- (4) (A) is false but (R) is true.

129. $\triangle ABC$ and $\triangle BPE$ are two equilateral triangles such that P, E are the mid points of \overline{AB} , \overline{BC} respectively. Then the ratio of the areas of ΔBPE and ΔABC 1S

(1) 1:2

- (2) $\sqrt{3}:2$
- $(3) \ 3:4$
- (4) 1:4

130. In a rectangle RSTU, the diagonals intersect at 'O' and OR = 5x + 1 and OU = 2x + 4, then the value of $x = \dots$

(1) 1

(2) 3

(3) 4

(4) 2

P)

Q)

R)

S)

equal

 360^{0}

100

 90^{0}

131. Match the following:

- - Each angle of a rectangle is i)
 - Opposite angles of a parallelogram is ii)
 - Sum of angles in a quadrilateral
 - (1) i P, ii R, iii S, iv Q

(2) i - Q, ii - S, iii - R, iv - P

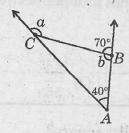
(3) i - R, ii - Q, iii - P, iv - S

(4) i - S, ii - P, iii - Q, iv - R

The side of a square is 25 cm, then its perimeter is cm

132. Find the measures of 'a' and 'b' respectively from the given figure.

- (1) 30^{0} , 110^{0}
- $(2) 110^0, 50^0$
- (3) 40^{0} , 150^{0}
- (4) 150° , 110°



133. Which one of the following will divide $(3^{125} + 3^{126} + 3^{127} + 3^{128})$ completely?

(1) 11

(2) 16

- (3) 25
- (4) 30

134. Which is greater among the following?

- (1) $2^{2^{2^2}}$
- (2) 2222
- $(3) 222^2$
- $(4) \left[\left(2^2 \right)^2 \right]^2$

135. If a, b, c are three natural numbers, then the number 'abcabc' is always divisible by

(1) 7

(2) 11

- (3) 13
- (4) All of these

136. If $x = (-501) + 502 + (-503) + (504) + \dots (30 \text{ terms})$ and $y = (2010) + (-2011) + (2012) + (-2013) + \dots (20 \text{ terms})$ then $x + 2 + (-2013) + \dots (20 + (-2013) + \dots$

- $y = (2010) + (-2011) + (2012) + (-2013) + \dots (20 \text{ terms})$, then $x + y = \dots$
- (1) 50

(2) 15

- (3) 10
- (4) 5

137. If $x = (-1)^{2020}$ and $y = (+1)^{2021}$ and x + y = z, then

$$(x+y+z)\cdot(x+y)\cdot(z)-\left(\frac{x+y}{z}\right)=?$$

(1) 15

(2) 0

- (3) 16
- (4) 11

138. If the units digit in $(549)\times 56\times (28*)\times (684)$ be '8', then what digit will be there in place of '*'?

(1) 4

(2) 3

- (3) 2
- (4) 1

139. If $x = 0.\overline{7}$ and $y = 0.\overline{23}$, then the rational number between (x + y) and (x - y) is

- (1) $\frac{4}{11}$
- (2) $\frac{5}{11}$
- (3) $\frac{53}{55}$
- (4) $\frac{12}{11}$

140. For what values of n, $n^2 + 96$ is a perfect square?

- (1) 23, 10, 5, 2
- (2) 25, 12, 4, 3
- (3) 28, 14, 6, 7
- (4) 25, 11, 8, 6

141. If $\frac{2 + \frac{1}{3\frac{4}{5}}}{2 + \frac{1}{3 + \frac{1}{1 + \frac{1}{4}}}} = x$, then the value of x is

(1) $\frac{1}{7}$

(2) $\frac{3}{7}$

- $(3) \frac{7}{7}$
- (4) $\frac{8}{7}$

142. If $15:22\frac{1}{2}=x:9$ and $x=m\times n$, where m, n are consecutive whole numbers,

then the value of $(n+1)^{m+1}$ is

 $(1) 4^3$

(2) 4^2

- $(3) 4^4$
- $(4) 2^4$

143. If $1.125 \times 10^k = 0.001125$, then the value of k is

(1) -4

(2) -3

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

144. The mean of 25 observations is 18. Among these the mean of first 12 observations is 14 and the last 12 observations is 17, then what is the 13th observation?

(1) 67

- (2) 144
- (3) 78
- (4) 31

145. 30 men can complete a work in 18 days by working 7 hours a day. How many men are required to complete the same work in 30 days by working 6 hours per day?

(1) 15

(2) 21

- (3) 22
- (4) 25

147. 3

148. I

149.

150.

151.

152. I

HISTORY

146. I

Match the following:	Three residences and the second second second second
ii) Paes	P) Krishna Deva Raya Q) Achyuta Raya R) Devaraya-II
1) i – P, ii – Q, iii – R 3) i – Q, ii – P, iii – R	(2) i - R, ii - Q, iii - P (4) i - R, ii - P, iii - Q
Jahangir's mother was the dau 1) Jodhpur (2) Chitt	
were held. 2) dining hall where the feasts	sions with learned individuals of different faiths to foreign guests were arranged. ection of religious books were kept.
Who among the following grant 1) Shah Alam 3) Bahadur Shah Zafar	ted Robert Clive the right to rule Bengal? (2) Anwaruddin Khan (4) Muzaffar Jung
	ued the Palegars in Rayalaseema? has Munro (3) Robert Clive (4) Dalhousie
The famous slogan 'Swaraj is m 1) Subhash Chandra Bose 3) Bal Gangadhar Tilak	y birth right' was given by (2) Dadabhai Naoroji (4) Gandhiji
n which of the following session Purna Swaraj' was its goal? 1) Lahore Session 3) Madras Session	ns, Congress declared that the attainment of (2) Nagpur Session (4) Pune Session
Subcontinent.	l Al-Biruni to write an account of the Indian
ii) Al-Biruni wrote the book na	med Kitab-al-Hind in Urdu.

153.

- (1) (i) only

(2) (11) only

(3) Both (i) and (ii)

- (4) Neither (i), nor (ii)
- 154. In Chola's administration, settlements of peasants are known as

[27]

- (1) Nadus
- (2) Valnadus
- (3) Ur
- (4) Mandalams

155. In the beginning, Kakatiyas were holding the posts of

- (1) Rattadi
- (2) Nayakas
- (3) Amaranayakas
- (4) Jagirdars

C

GEOGRAPHY

156.	Which of the following statements is/are CORRECT? i) The Central Africa receives very low rainfall.							
			a receives heavy rai		rike one of the second			
		(i) Only			(ii) Only	(22)		
	(3)	Both (i) and (ii)		(4)	Neither (i), no	c (11)		
157.	***	nose books were use early stage?	ed by the Arab schola	ars a	and sailors to pr	epa	re maps at	
	(1)	Anaximander	(2) Al Idrisi	(3)	Mercator	(4)	Ptolemy	
158.		no among the follow ntacts with the spiri	ring are believed by tworld?	Esk	imos to help est	abli	sh and keep	
	(1)	Vikings	(2) Mukluks	(3)	Shamans	(4)	Sedna	
159.	(1) (2) (3)	The belt extending The belt extending The belt extending	gimum heat energy in grom the Tropic of grom the Tropic of grom the Tropic of grom the Arctic circ	Can Can Cap	cer to the Tropi cer to the Equa ricorn to the Ec	tor o	only. or only.	
160.	An	dhra Pradesh has i	no such forests –				4 - Paris - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	
		Evergreen forests		(2)	Deciduous fore	ests		
	(3)	Thorny forests		(4)	Mangrove fore	sts		
161.	Re hea (1) (2) (3)	rface. ason (R) : The sunr ats the earth. Both (A) and (R) a		mos	phere. Then the	atn on of	nosphere (A).	
162.		e angle made by Ea 23.5 degrees	orth's axis of rotation (2) 66.5 degrees		th the plane of i 90 degrees		bit is 0 degrees	
163.		stern ghats DO NO Andhra Pradesh	OT extend in the follo (2) Odisha		g State – Karnataka	(4)	Tamil Nadu	
164	Ri	ver Oder empties its	selfin					
101.		Adriatic sea	(2) Black sea	(3)	Baltic sea	(4)	Caspian sea	
165.	Th	ne countries across	whose borders the P	yren	ees stretch?			
6.16		France, Spain	and spile of the state of	(2)	Portugal, Spa		188 By	
	(3)	Britain, France		(4)	France, Germ	any		

POLITICAL SCIENCE

7

166. The term,	'Republic',	mentioned in	the Preamble	means that:
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- (1) The Government will not favour any religion.
- (2) People have the supreme right to make decisions.
- (3) Head of the State is an elected person.
- (4) People should live like brothers and sisters.

167. Difference between Directive Principles and Fundamental Rights -

- (1) Citizens can take help from the courts in case their Fundamental Rights are violated but there is no such possibility regarding Directive Principles.
- (2) Citizens can take help from the courts in case the Directive Principles are violated but there is no such possibility regarding Fundamental Rights.
- (3) The Fundamental Rights are mentioned in the Constitution but not the Directive Principles.
- (4) The Directive Principles are mentioned in the Constitution but not the Fundamental Rights.

168.	Total number of	Constitue	encies res	served for	SCs in	Andhra	Pradesh	State
	T							
	Legislative Asser	mbly is					A Thirty of the Sale	

(1) 29

(2) 7

(3) 17

(4) 10

169. "I shall strive for a Constitution which will release India from all thraldom and patronage I shall be satisfied with nothing else." The national leader who wrote these words was –

(1) Jawaharlal Nehru

(2) Gandhiji

(3) Ambedkar

(4) Rajendra Prasad

170. Parliament consists of:

- (1) Lok Sabha only
- (2) Rajya Sabha only
- (3) Lok Sabha and Rajya Sabha
- (4) Lok Sabha, Rajya Sabha and The President

- 171. Who among the following demanded the British Colonial Government in 1911 to make a law for free and compulsory education for all the children of the country?
 - (1) Bal Gangadhar Tilak

(2) Ambedkar

(3) Gopal Krishna Gokhale

(4) Dadabhai Naoroji

- 172. The Chief Election Commissioner of India holds the office for
 - (1) Six years
 - (2) Five years
 - (3) Six years or till the age of 65 years, whichever is earlier.
 - (4) Five years or till the age of 60 years, whichever is earlier.
- 173. Assertion (A): January 26th is celebrated every year as the Republic day of India.

Reason (R): On January 26th, 1950 the Constitution was adopted finally by the constituent assembly.

- (1) Both (A) and (R) are true and (R) is the correct explanation of (A).
- (2) Both (A) and (R) are true but (R) is not the correct explanation of (A).
- (3) (A) is true but (R) is false.
- (4) (A) is false but (R) is true.
- 174. The Governor of the State is appointed by:
 - (1) The Chief Minister
 - (2) The Prime Minister
 - (3) The President
 - (4) Members of the State Legislative Assembly
- 175. The person who drafted a Constitution for India in 1928 -
 - (1) Dadabhai Naoroji

(2) Motilal Nehru

(3) Subhash Chandra Bose

(4) Ambedkar

110130 1716

ECONOMICS



176	Antyodaya card holders are entitled to get						
	(1) 25 kgs of food grains	(2)	30 kgs of food grains				
	(3) 35 kgs of food grains	(4)	40 kgs of food grains				
177.	The largest employer in India today is						
	(1) Software companies	(2)	Agriculture sector				
	(3) Service sector	(4)	Industries				
178.	From his granary, the King should set a	part	one half for the people in the				
	countryside in times of distress and use the other half, and he should replace						
	old stock for new. These words were written by -						
1.	(1) Kautilya (2) Kalhana	(3)	Abul Fazal (4) Todar Mal				
179.	Find out the FALSE statement regarding the technological changes –						
	(1) They create some new jobs.						
	(2) They bring changes in production process.						
	(3) They also affect service activities.						
1	(4) They are always welcomed by all the people.						
180.	How many days of employment can a rural house-hold get in a year under						
	MNREGA?						
	(1) Atleast 200 days	(2)	Atleast 150 days				
	(3) Atleast 100 days	(4)	Atleast 50 days				

Space for Rough Work

