NMMS – 2023-24

SEAT No. ☐☐☐☐☐☐☐

INSTRUCTIONS FOR STUDENTS

Please read the following instructions carefully and then answer the questions on OMR answer sheet only.

1. The following table contains number of sections, total number of questions, time and marks allotted.

Section	Name of section	Que. No.	Time	Marks
1	MENTAL ABILITY TEST	1 to 90	90 Minutes	90
2	SCHOLASTIC APTITUDE TEST	91 to 180	90 Minutes	90
	Total	180 Questions	180 Minutes	180 Marks

2. Section - 2 contains Que. No. 91 to 180 SCHOLASTIC APTITUDE TEST (Maths, Science & Technology and Social Science).

3. **All questions are compulsory.**

4. The blank pages are given in this question booklet for rough work.

5. Be careful to answer all the questions of both the sections in the same OMR SHEET only.

6. You must have to submit the OMR SHEET to the invigilator upon completion of the examination.

7. Gujarati version of the question paper will be considered as final in case of any controversy arising out of variation in translated version.

8. It is compulsory for each student to write the series (A,B,C,D and E) of the question paper on the OMR SHEET.

(1) Find the missing number from the options, for the number series given in question No. 1 to 5.

   39, 31, 23, 15, ...

   (A) 6   (B) 7

   (C) 8   (D) 9

(2) 6, 7, 13, 20, 33, ...

   (A) 53   (B) 46

   (C) 36   (D) 96

(3) 4, 16, 64, ... , 1024

   (A) 80   (B) 128

   (C) 256   (D) 512

(4) 17, 27, 47, 77, ...
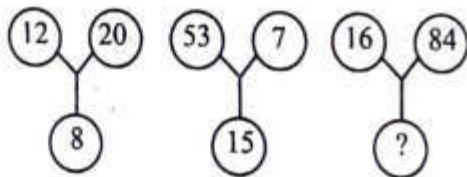
   (A) 87   (B) 97

   (C) 107   (D) 117

(5) 23, 32, 26, ... , 29, 40, 32, 44.
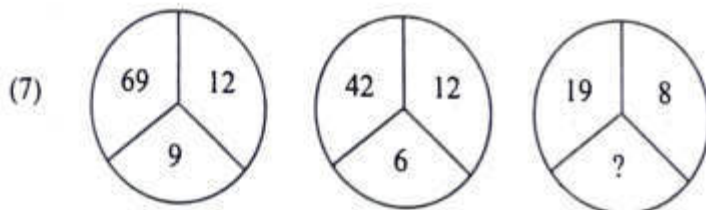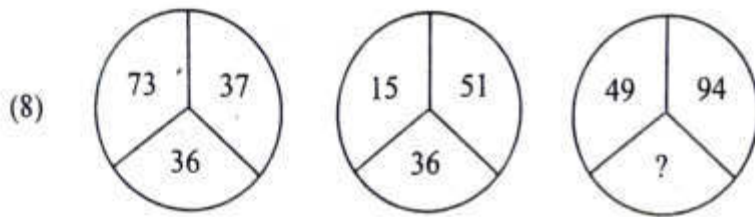
   (A) 27   (B) 28

   (C) 35   (D) 36

(6) Numbers are arranged in the similar context in the diagrams, given in question 6 to 10 below. Based on that, find the number for (?) from the options. (6 to 10 questions)
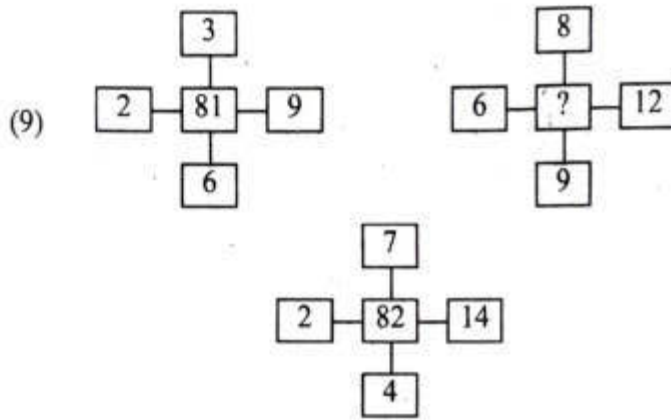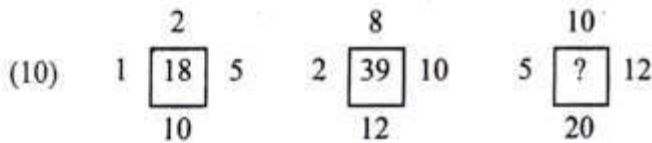
(12)—(20) with (8) below; (53)—(7) with (15) below; (16)—(84) with (?) below

   (A) 22   (B) 25

   (C) 35   (D) 100

(7) Circle 1: 69, 12, 9 ; Circle 2: 42, 12, 6 ; Circle 3: 19, 8, ?

   (A) 6   (B) 5

   (C) 4   (D) 3

(8)

(A) 63   (B) 54   (C) 45   (D) 36

(9)

(A) 27   (B) 96   (C) 72   (D) 48

(10)

```
   2          8           10
1 [18] 5   2 [39] 10   5 [ ? ] 12
  10         12          20
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(A) 32   (B) 37   (C) 42   (D) 47

(11) Saputara : Gujarat :: Nainital : ....

(A) Himachal Pradesh   (B) Uttar Pradesh

(C) Bihar   (D) Uttarakhand

(12) Water : Ice :: Vapour : ....

(A) Cold   (B) Water

(C) Liquid   (D) Freeze

(13) If SWAN is written as 6215 and SENSE is written as 64564, than what will be the code for NEWS ?

(A) 5426   (B) 5462

(C) 4526   (D) 5246

(14) Tea : Leaves :: Coffee : ....

(A) Root   (B) Seed   (C) Branch   (D) Flower

Find the word, object, organization, material that differs from the rest, in the given options for questions 15 to 18 below.

(15) Reed pipe, Been, Flute, Tamburo

(A) Reed pipe   (B) Been

(C) Flute   (D) Tamburo

(16) Hectares, acres, squaremeters, kilometers

(A) Hectors   (B) Acres

(C) Square meters   (D) Kilometers

(17) $(Length)^2$, $(Length \times width)$, $\frac{1}{2}(Base \times Height)$, $(4 \times Length)$

(A) $(Length)^2$ (B) $(Length \times width)$

(C) $\frac{1}{2}(Base \times Height)$ (D) $(4 \times Length)$

(18) Night blindness, Scurvy, Color blindness, Cataracts

(A) Night blindness   (B) Scurvy

(C) Color blindness   (D) Cataracts

Find which of the following pairs is incorrect according to their related information in questions 19 to 22.

(19) .... II ....

(A) Ahmedabad - Sabarmati   (B) Vadodara - Vishwamitri

(C) Rajkot - Bhadar   (D) Bharuch - Narmada

(20) .... II ....

(A) Maha - Mahashivratri   (B) Fagan - Holi

(C) Chaitra - Ramnavami   (D) Vaishakh - Rakshabanadhan

(21) .... II ....

(A) Jaipur - Rajasthan   (B) Bhopal - Madhya Pradesh

(C) Ranchi - Chhattisgarh   (D) Chennai - Tamilnadu

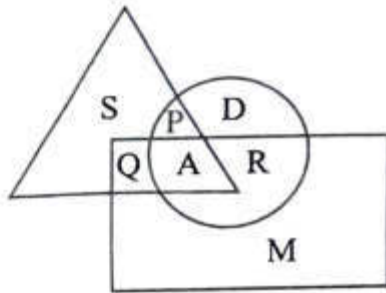(22) .... II ....

(A) 0 - Neutral Number

(B) 1 - Prime Number

(C) 2 - Even Number

(D) 3 - Odd Number

In the diagram below, the triangle represents the athlete, the circle represents the dancer and the rectangle represents the musician. Answer questions 23 to 26 based on this diagram.

(23) Who is a musician as well as an athlete ?

(A) Q

(B) R

(C) S

(D) M

(24) Who is a musician but not a dancer ?

(A) S

(B) Q

(C) R

(D) A

(25) V' ʋ is neither an athlete nor a dancer ?

(A) P

(B) A

(C) R

(D) M

(26) Who is both a dancer and an athlete ?

(A) P

(B) Q

(C) R

(D) M

Questions 27 to 29 below are incorrect by changing the mathematical terms in the equation. Make the equations true by selecting the correct option from the given options.

(27) $56 - 4 + 12 = 8$

(A) $-, =, +$

(B) $+, -, =$

(C) $=, -, \times$

(D) $=, \times, +$

(28) $200 - 20 \times 15 = 150$

(A) $\div, \times, =$

(B) $\times, \div, =$

(C) $\div, =, \times$

(D) $+, \times, =$

(29) $25 - 15 + 5 \times 75$

(A) $-$, $\div$, $\times$

(B) $\div$, $\times$, $-$

(C) $\times$, $\div$, $-$

(D) $\div$, $-$, $\times$

(30) If 6ᵗʰ of a month is Tuesday, then which day will be there on 12ᵗʰ and 18ᵗʰ respectively?

(A) Tuesday, Friday

(B) Monday, Sunday

(C) Monday, Saturday

(D) Wednesday, Thursday

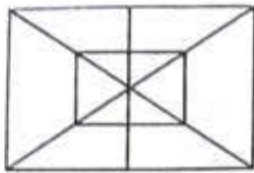(31) P is father of Q but Q is not a son of P. Then what will be the relation of Q with P?

(A) Mother   (B) Daughter   (C) Son   (D) Father

(32)

How many rectangles are there in the given figure?

(A) 10   (B) 8   (C) 7   (D) 6

(33)
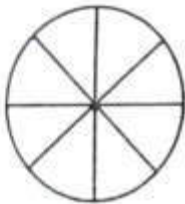
How many semicircles are there in the given figure?

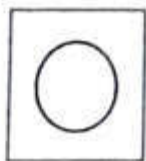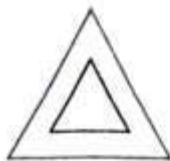(A) 4   (B) 6   (C) 8   (D) 10

Find out the different figures from the given figures in question 34 to 36 below.

(34)
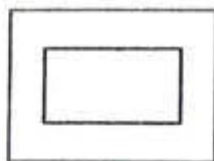

(i)   (ii)   (iii)   (iv)
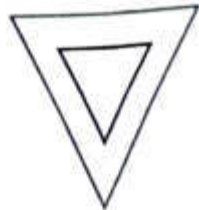
(A) Figure (i)

(B) Figure (ii)

(C) Figure (iii)

(D) Figure (iv)
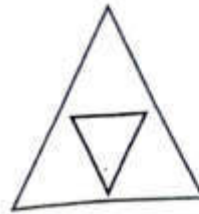
(35)

(i)   (ii)   (iii)   (iv)
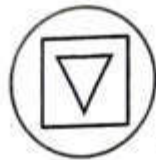
(A) Figure (i)   (B) Figure (ii)
(C) Figure (iii)   (D) Figure (iv)

(36)

(i)   (ii)   (iii)   (iv)

(A) Figure (i)   (B) Figure (ii)
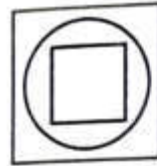(C) Figure (iii)   (D) Figure (iv)
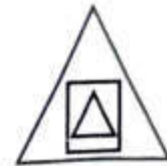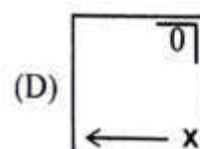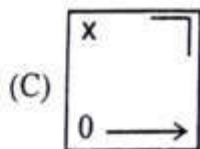
(37)

(A)   (B)

(C)   (D)

(38)

(A)

(B)

(C)

(D)
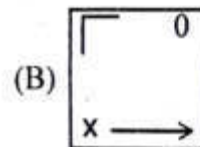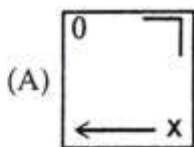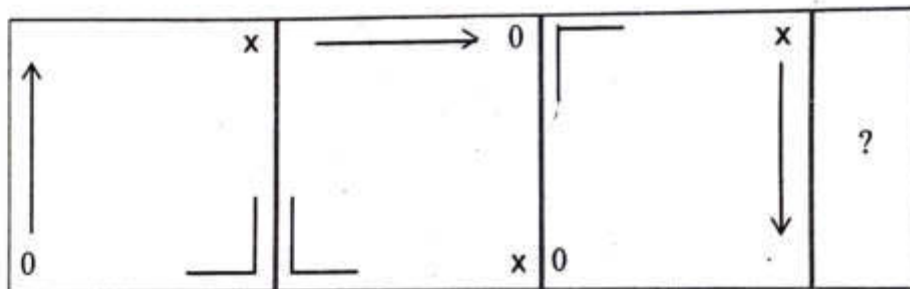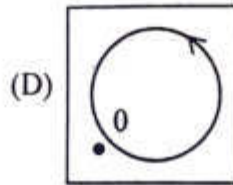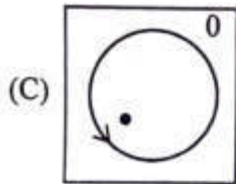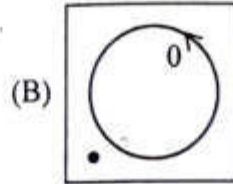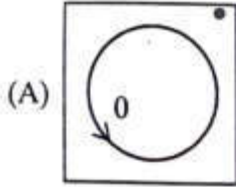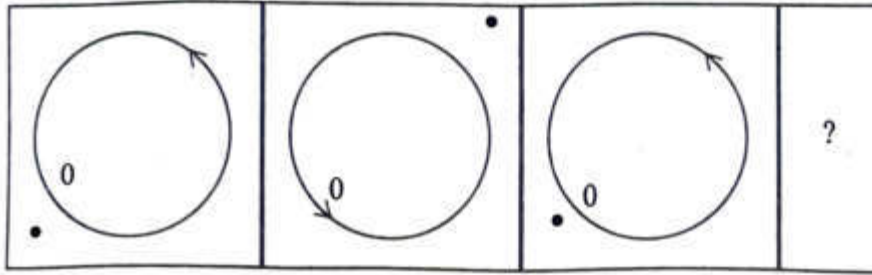
Find the missing number in the number series shown in the questions 39 to 43 below from the options.

(39) 50, 45, 40, 35, 30, ... ?

(A) 28   (B) 15   (C) 25   (D) 20

(40) $2, 1, \frac{1}{2}, \frac{1}{4}, $ .... ?

(A) $\frac{1}{3}$ (B) $\frac{1}{8}$ (C) $\frac{2}{8}$ (D) $\frac{1}{16}$

(41) 7, 10, 8, 11, 9, 12, ... ?

(A) 7   (B) 10   (C) 12   (D) 13

(42) 36, 34, 30, 28, 24, ... ?

(A) 20   (B) 22   (C) 23   (D) 26

(43) 53, 53 40, 40, 27, 27, ... ?

(A) 12   (B) 14   (C) 27   (D) 53

Find the missing alphabet in questions 44 to 46

(44) B, E, I, N, T, ... ?

(A) X   (B) R

(C) Z   (D) A

(45) T, R, P, N, L, ?, ?

(A) J, G   (B) J, H

(C) K, H   (D) K, I

(46) AZ, CX, FU, ... ?

. (A) IR   (B) IV

(C) JQ   (D) KP

(47) Which among the followings is different from all others ?

(A) Calendar   (B) Year

(C) Month   (D) Date

(48) Which among the followings is different from all others ?

(A) 20, 16, 18   (B) 18, 14, 16

(C) 16, 12, 14   (D) 14, 11, 13

(49) Find the correct relationship from the options given below.

River : Bridge :: Traffic : ....

(A) Police   (B) Vehicle

(C) Signal   (D) Smoke

(50) Find the correct relationship from the options given below.

Aeroplane : Cockpit :: Train : ....

(A) Compartment   (B) Guard

(C) Engine   (D) Passenger

(51) Ramayana : Valmiki :: Mahabharata : ....

(A) Ved Vyas   (B) Shri Krishna

(C) Geeta   (D) War

(52)

1	3	2
8	6	7
9	5	?
72	90	56

(A) 22   (B) 37   (C) 4   (D) 15

(53)

(A) 81
(C) 32

(B) 64
(D) 20

(54)

(A) 71
(C) 62

(B) 59
(D) 55

(55)

(A) 12
(C) 6

(B) 10
(D) 9

(56)

101   43   38   35   15

184   56   ?   48   34
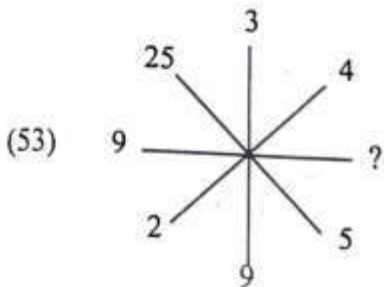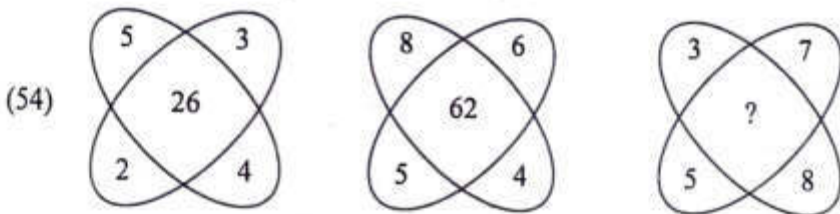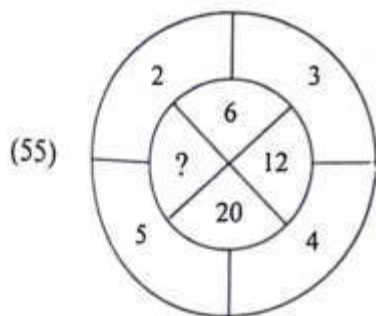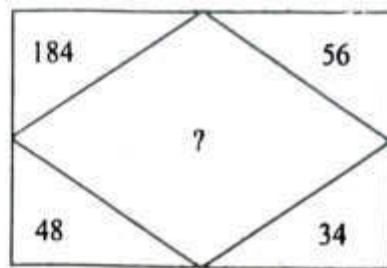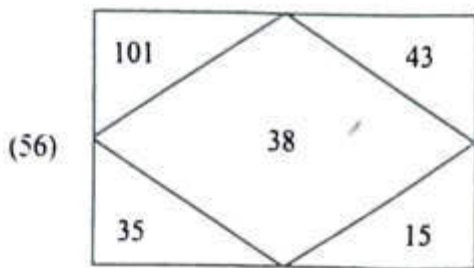
(A) 114

(B) 142

(C) 158

(D) 198

(57) There is a word given in capital letters and four words below are given in options. There is only one word not formed from the letters / alphabets of the given word. Find the word.

INTEGRAL

(A) ENTREATY

(B) TRIANGLE

(C) RELATING

(D) ALERTING

(58) Which of the following word can not be formed from the word LINEAR ?

(A) EAR

(B) NEAT

(C) LINE

(D) NEAR

(59) How many triangles are there in the given figure ?
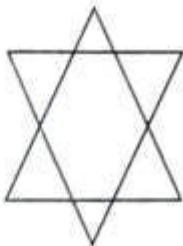
(A) 5

(B) 6

(C) 8

(D) 10

(60) Write the correct order of the English letters of the following word in their alphabetical order ?

PARENT

(A) AEPNRT

(B) AENPRT

(C) AENRPT

(D) AETNRP

(61) Write the correct order of the English letters of the following word in their alphabetical order ?

TABLET

(A) ABLETT   (B) ABTELT

(C) ABELTT   (D) ABLTTE

(62) Write the correct order of the English letters of the following word in their alphabetical order ?

EXAMINATION

(A) AAEIIMNNOTX   (B) AAEIINNMOTX

(C) AAEIIONNMTX   (D) AAEIIMONNTX

(63) Arrange in meaningful order.

(1) Glue   (2) Paper

(3) A load of sticks   (4) Forest

(A) 4, 3, 1, 2   (B) 1, 3, 4, 2

(C) 2, 3, 4, 1   (D) 4, 2, 3, 1

(64) Arrange in meaningful order.

(1) Sea   (2) River

(3) Spring   (4) Glacier

(A) 1, 2, 3, 4   (B) 4, 3, 2, 1

(C) 3, 4, 2, 1   (D) 2, 3, 4, 1

(65) Arrange in meaningful order.

(1) Ceiling   (2) Wall

(3) Window   (4) Base

(A) 1, 2, 3, 4   (B) 4, 3, 2, 1

(C) 4, 2, 3, 1   (D) 3, 2, 4, 1

(66) Find the odd one out from question.

(A) Duha   (B) Pad

(C) Sonnet   (D) Bhajan

(67) Find the odd one out from question.

(A) Div   (B) Daman

(C) Goa   (D) Puducherry

(68) Find the odd one out from question.

(A) Equilateral quadrilateral

(B) Parallelogram

(C) Kite shaped quadrilateral

(D) Square quadrilateral

(69) Acid : Sour taste :: Base : ....?.......

(A) Sweet

(B) Bitter

(C) Spicy

(D) Salty

(70) If ANT = 179 and DOG = 405 then GOAT = ...?..........

(A) 0159

(B) 5109

(C) 5019

(D) 1905

(71) If TASK = 3147 and FLAME = 25168 , then FLASK = ...?..........

(A) 25417

(B) 25714

(C) 25174

(D) 25147

Arrange the options in logical ascending order for questions 72 to 75

(72) 1. Egg

2. Caterpillar

3. Chrysalis

4. Butterfly

(According to the life cycle of a butterfly)

(A) 1 - 2 - 3 - 4

(B) 4 - 3 - 2 -1

(C) 1 - 3 - 2 - 4

(D) 4 - 1 - 2 - 3

(73) 1. Thiruvananthapuram

2. Bengaluru

3. Pune

4. Mumbai

(According of distance from Ahmedabad)

(A) 1 - 2 - 3 - 4

(B) 4 - 3 - 2 - 1

(C) 1 - 3 - 4 - 2

(D) 1 - 3 - 2 - 4

(74) 1. Oxygen

2. Carbon Dioxide

3. Nitrogen

4. Ammonia

(According to its proportion in air)

(A) 1 - 2 - 3 - 4

(B) 3 - 2 - 1 - 4

(C) 4 - 3 - 2 - 1

(D) 4 - 2 - 1 - 3

(75) 1. Girnar   2. Chotila
      3. Pavagadh   4. Kalo Dungar

      (According to its height)

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

Question 76 to 78 below follow a particular pattern in the diagram. In the next pattern select a specific option in place of (?)

(76)

(A)   (B)

(C)   (D)

(77)

(A)   (B)

(C)   (D)

(78)

(A)   (B)   (C)   (D)
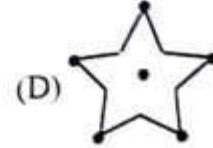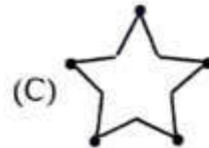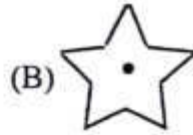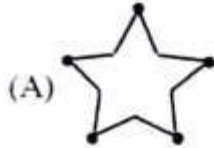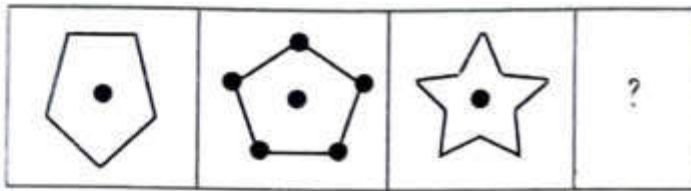
(79) For figures 79 to 81, options are given for the reflection seen in the mirror. Choose the option that represents the true reflection of the figure from the given options.

R

(A)   (B) Я

(C) R   (D)

(80)

(A)   (B)

(C)   (D)
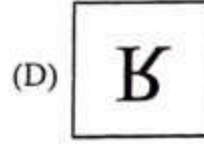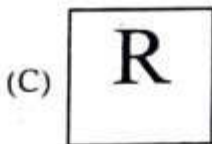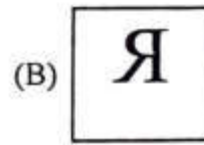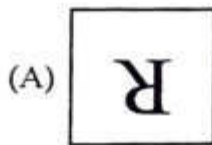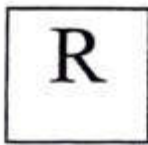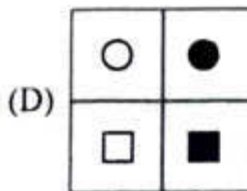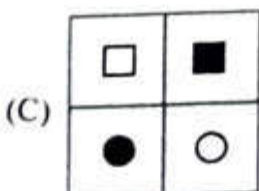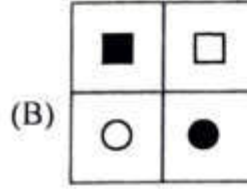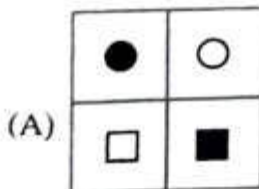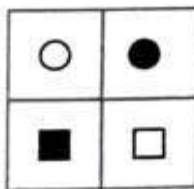
(81)
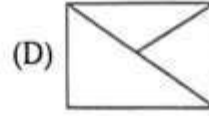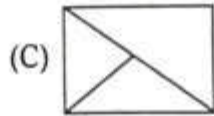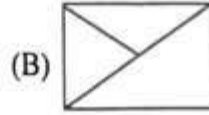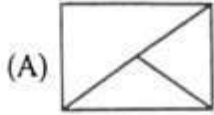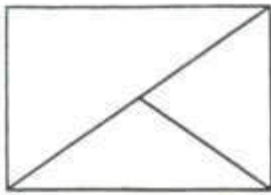
(82) Rajan's father's age is four times Rajan's age. Rajan is 10 years old. Five years ago Rajan's father's age must be how many times of Rajan's age?

(A) 4 times   (B) 5 times

(C) 7 times   (D) 10 times

(83) Param walks straight in the East direction for five minutes. Then he turns right and walks for another five minutes. Then returns to the original path. Now in what direction will he be walking after two minutes?

(A) North   (B) South

(C) East   (D) West

(84) 15 players of the cricket team are standing in a row on the field. What will be the rank of Virat from the back if he stands fifth from the front?

(A) 12   (B) 11

(C) 10   (D) 9

(85) You sre standing in front of a bench. Jay, Vijay, Ajay and Sujay are sitting on that bench. Ajay and Sujay are sitting beside. Vijay is not on the side of Jay or Ajay. Jay is sitting at the right end of the bench. So state the order of sitting on the bench of all the four ?

(A) Jay - Vijay - Ajay - Sujay   (B) Jay - Sujay - Vijay - Ajay

(C) Jay - Ajay - Sujay - Vijay   (D) Jay - Ajay - Vijay - Sujay

(86) Jaival is right in the middle of a line of students. If he is ninth from the front, how many students will be standing behind him ?

(A) 8   (B) 7

(C) 9   (D) 6

(87) How many ten thousand are there in one crore?

(A) 10

(B) 100

(C) 1000

(D) 10000

(88) Convert 4.5 hours into minutes.

(A) 240

(B) 275

(C) 280

(D) 270

(89) If the day after tomorrow will be Friday, then yesterday was ....

(A) Wednesday

(B) Monday

(C) Tuesday

(D) Saturday

(90) If 30% of 30% of a number is 54, then what is that number?

(A) 900

(B) 800

(C) 700

(D) 600

(91) Which of the following indicates the greatest rise in temperature ?

(A) 24^0 થી 33^0

(B) $- 10^0$ થી $+ 1^0$

(C) $- 19^0$ થી $- 12^0$

(D) $- 4^0$ થી 4^0

(92) What is the right angle of a supplementary angle of 110^0 ?

(A) 70^0

(B) 20^0

(C) 90^0

(D) 180^0

(93) The selling price of one pen is Rs. 70. If the shopkeeper is to earn 40% profit on it then what will be the cost price of the pen?

(A) Rs. 30

(B) Rs. 40

(C) Rs. 50

(D) Rs. 75

(94) What would be the formula for finding the area of a parallelogram ?

(A) $\frac{1}{2}$ bh

(B) $2\pi r$

(C) bh

(D) πr^2

(95) If $54 = 5.4 \times 10^1$, then $5400 = 5.4 \times$ ....? ....?

(A) 10^3

(B) 10^4

(C) 10^2

(D) 10

(96) What is true of the following for $(4^4 \times 4^2)^{\frac{1}{3}}$?

(A) $\dfrac{1}{4^3}$

(B) 4^{-3}

(C) 4^3

(D) 4^2

(97) If three cubes of dimensions 3 cm × 3 cm × 3 cm are placed side by side, what would the dimensions of the resulting cuboids be ?

(A) 9 cm × 3 cm × 3 cm

(B) 6 cm × 6 cm × 6 cm

(C) 3 cm × 6 cm × 9 cm

(D) 9 cm × 12 cm × 6 cm

(98) What will be the smallest integer divisible by 4, 12 and 15 ?

(A) 400

(B) 900

(C) 1600

(D) 720

(99) What is the inverse number of $-\dfrac{4}{20}$?

(A) 5

(B) $\dfrac{20}{4}$

(C) $-\dfrac{20}{4}$

(D) -4

(100) A bag contains 4 red balls and 4 green balls. If one ball is randomly selected from the bag, what is the probability that it is a red ball ?

(A) $\dfrac{1}{4}$

(B) $\dfrac{1}{8}$

(C) $\dfrac{1}{2}$

(D) 4

(101) Observe the diagram below and choose the answer that is congruent to the diagram.
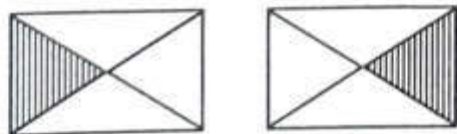
(A) $2 \times \dfrac{1}{4}$

(B) $2 \times \dfrac{2}{4}$

(C) $2 \times \dfrac{3}{4}$

(D) $\dfrac{1}{4}$

(102) If A || B, find the value of x in the figure below.
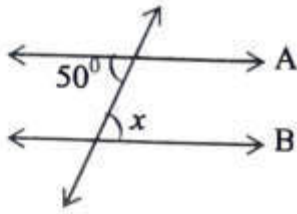
(A) 45^0
(B) 40^0
(C) 120^0
(D) 50^0

(103) The following table shows the number of tourists visiting the historical site in a week :

Day	Numbers of Tourists
Monday	65
Tuesday	72
Wednesday	98
Thursday	84
Friday	60
Saturday	108

What will be the average number of tourists visiting on Monday and Friday?

(A) 63
(B) 63.5
(C) 62
(D) 62.5

(104) The sum of four times x and 14 is 42. Write this statement as an equation.

(A) $4x + 14 = 42$
(B) $4x - 14 = 42$
(C) $16x + 14 = 42$
(D) ઉપરના પૈકી એકપણ નહીં

(105) What is the circumference of a circular plate if its radius is 21cm. ? ($\pi = \frac{22}{7}$)

(A) 132 cm
(B) 123 cm
(C) 142 cm
(D) 112 cm

(106) A car covers a distance of eighteen kilometers using 1 liter of petrol, then how much distance will that car cover by using $3\frac{2}{3}$ liter of petrol ?

(A) 54 K.m.
(B) 66 K.m.
(C) 74 K.m.
(D) 76 K.m.

(107) Find the moderator (Mode) of this information : 10, 16, 12, 14, 18, 13, 15, 11, 16

(A) 14

(B) 15

(C) 16

(D) 18

(108) What are the pairs of alternate exterior angles in the given figure ?
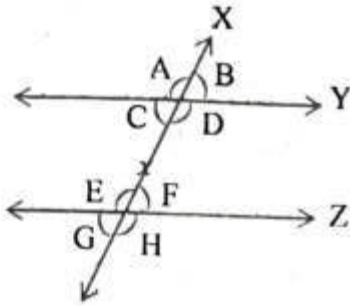
(A) $\angle C, \angle D$ અને $\angle E, \angle F$

(B) $\angle A, \angle B$ અને $\angle G, \angle H$

(C) $\angle A, \angle H$ અને $\angle B, \angle G$

(D) $\angle C, \angle F$ અને $\angle D, \angle G$

(109) A tree with 18 meter height, breaks down from 5 meter height. At what distance, its top struck on the ground from trunk ?

(A) 5 meter

(B) 12 meter

(C) 13 meter

(D) 18 meter

(110) Find a value of : $\frac{-9}{13} \div \frac{(-7)}{11}$

(A) $-\frac{99}{91}$

(B) $-\frac{91}{99}$

(C) $\frac{91}{99}$

(D) $\frac{99}{91}$

(111) A classroom has a square blackboard and a rectangular blackboard. Both have the same area. If the side of the square blackboard is 62 cm and the length of the rectangular blackboard is 90 cm then what is the width of the rectangular blackboard?

(A) 40 cm

(B) 45 cm

(C) 50 cm

(D) 60 cm

(112) What is the perimeter including the diameter of a semicircle, if its radius is 5 cm ? ($\pi = 3.14$)

(A) 10.7 cm

(B) 15.7 cm

(C) 20.7 cm

(D) 25.7 cm

(113) Find solution : $4x - 3(x - 5) = 3(2x - 2)$

(A) $\dfrac{2}{21}$

(B) $\dfrac{4}{21}$

(C) $\dfrac{5}{21}$

(D) $\dfrac{8}{21}$

(114) The students of class 10 of one school, altogether donates Rs. 2601 in the Chief Minister relief fund for cyclone victims. An amount donated by each student is as much as the Number of Students in class. Then number of students in class is ....

(A) 49

(B) 51

(C) 59

(D) 61

(115) The height of 10 girls were measured in cm. What is the range of the data? 135, 150, 139, 128, 151, 132, 146, 149, 143, 141

(A) 146

(B) 23

(C) 32

(D) 151

(116) In a radio repairing shop 8 out of 32 radios are not working. What percentage of the radios are not working?

(A) 25%

(B) 20%

(C) 50%

(D) 15%

(117) Which of the following shapes has a linear symmetry and rotational symmetry?

(A) C

(B) A

(C) S

(D) H
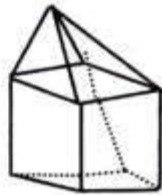
(118) How many edges, faces and vertices are there in the given figure?

(A) 9, 9, 16

(B) 9, 10, 16

(C) 16, 9, 9

(D) 8, 10, 9

(119) What property used in $\dfrac{3}{7} + \left(\dfrac{-6}{11}\right) + \left(\dfrac{-8}{21}\right) + \dfrac{5}{22} = \left[\dfrac{3}{7} + \left(\dfrac{-8}{21}\right)\right] + \left[\left(\dfrac{-6}{11}\right) + \dfrac{5}{22}\right]$

(A) Community property

(B) Sequential and community property

(C) Sequential property

(D) Distributive property

(120) $\sqrt{40.96}$ = ...

(A) 4.6   (B) 6.4   (C) 5.6   (D) 6.6

(121) The Largest gland in the human body secretes ....

(A) Bile Juice

(B) Salivary Juice

(C) Pancreatic Juice

(D) Gastric Juice

(122) Which acid is present in Ant bite ?

(A) Formic acid

(B) Citric acid

(C) Lactic acid

(D) Acetic acid

(123) .... carries oxygenated blood from the lungs to the heart ?

(A) Pulmonary Artery

(B) Vein

(C) Artery

(D) Pulmonary vein

(124) A fuse works on the .... effect of electric current.

(A) Magnetic

(B) Chemical

(C) Gravitational

(D) Thermal

(125) .... is used to make aromatic (perfumes) substances.

(A) Coke

(B) Coal gas

(C) Coal tar

(D) Bitumen

(126) State the correct ascending order based on the heat energy produced during the combustion of the fuel.

(A) Petrol→ Hydrogen→ Cow dung cake→ Wood

(B) Hydrogen→ Petrol→ Cow dung cake→ Wood

(C) Wood→ Cow dung cake→ Hydrogen→ Petrol

(D) Cow dung cake→ Wood→ Petrol→ Hydrogen

(127) Which of the following has the lowest ignition temperature?

(A) Wood

(B) Paper Cup

(C) Paper cup filled with water

(D) Clothe

(128) Tea gets heated in the pan due to .... method of Transfer of Heat.

(A) Heat conduction

(B) Thermal radiation

(C) Heat sphere

(D) Heat convection

(129) Which of the following statements about clinical thermometer is false?

Statement-1   It is used to measure the temperature of human body

Statement-2   As the thermometer moves away from human body, the surface level of the mercury falls.

Statement-3   It measures the temperature ranging from 35°c to 42°c

(A) Statement-1   (B) Statement-1 & 3

(C) Statement-2   (D) Statement-3

(130) Turmeric stains on Amit's white shirt will turn into .... colour spot if his mother washes it with soap water.

(A) Purple   (B) Black   (C) Green   (D) Red

(131) What must be the reason, If Devanshi feels muscles cramp in leg after running for a short distance?

(A) Aerobic respiration occurs in the muscles

(B) As the amount of alcohol in the body increases

(C) Lactic acid is produced

(D) Running produces more CO_2 in the body

(132) My role is important in the process of transpiration in plant. Who am I?

(A) Rootrom   (B) Leaf hole   (C) Stem   (D) Villi

(133) If a pendulum with 1 meter long string, completes 20 oscillations in 42 seconds, what will be its periodic time?

(A) 1.1 seconds   (B) 2.1 seconds

(C) 3.1 seconds   (D) 4.1 seconds

(134) What does an ear, nose and throat doctor use while examining a patient?

(A) Convex lens   (B) Convex mirror

(C) Plain mirror   (D) Concave Mirror

(135) What is the first treatment done on polluted water in a waste water treatment plant?

(A) Air is added to water   (B) Chlorine gas is passed through

(C) Is passed through the bar screen   (D) Brought in big tank

(136) Which micro organism causes black rust (smut) in wheat?

(A) Fungi   (B) Bacteria

(C) Virus   (D) Protozoa

(137) Which organization advises on how to save petrol and diesel while driving in India ?

    (A) ONGC   (B) NTPC

    (C) OPEC   (D) PCRA

(138) Which part of our digestive tract contains villi ?

    (A) Stomach   (B) Small intestine

    (C) Large intestine   (D) Feces

(139) Plants which feed on food made by other plants are called ....

    (A) The host   (B) Saprophyte

    (C) Autotrophic   (D) parasite

(140) What is the measurement of water vapor in air called ...

    (A) Temperature   (B) Rainfall

    (C) Humidity   (D) Climate

(141) Which soil is suitable for grains like wheat and gram ?

    (A) Sandy soil   (B) Clayey soil

    (C) Loamy soil   (D) Clayey & loamy soil

(142) Which lense and mirror always forms an image that is concave, convex and smaller than the size of the object

    (A) Concave lense and convex mirror   (B) Concave lense and concave mirror

    (C) Convex lense and convex mirror   (D) Convex lense and concave mirror

(143) The distance from Usha's house to school is 120 km. It takes two hours to reach school from house by bus. So find the speed of the bus.

    (A) 60 km/h   (B) 30 km/h

    (C) 40 km/h   (D) 20 km/h

(144) Which organism does not observe Internal fertilization ?

    (A) The human   (B) Cow

    (C) Fish   (D) Chicken

(145) I am the initial part of the digestive tract / system.

    (A) Small intestine   (B) Large intestine

    (C) Pancreas   (D) Stomach

(146) Which of the following is a reproductive organ of a plant ?

(A) Stem   (B) Root   (C) Flower   (D) Leaf

(147) The sour taste in a substance is due to the .... it contains.

(A) Base   (B) Water   (C) Salt   (D) Acid

(148) Complete the following process. Hydrochloric acid + ... → sodium chloride + water.

(A) Sodium bicarbonate   (B) Sodium hydroxide

(C) Calcium carbonate   (D) Calcium chloride

(149) Blowing on a strip of paper decreases the .... on the strip.

(A) Velocity   (B) Speed   (C) Acceleration   (D) Pressure

(150) If Bhavin's age is 25 years, what will be his pulse rate in one minute approximately?

(A) 70 to 80   (B) 72 to 80   (C) 71 to 80   (D) 74 to 80

(151) Which of the following pairs is not compatible?

(A) Ubiquitous resources - oxygen   (B) Commonly available resources - Mineral oil

(C) Rare resources - Uranium   (D) Isolated resources - Cryolite mineral

(152) Find an odd one, in context to the places, obtaining energy from Non-conventional sources of energy in Gujarat ?

(A) Solar cold storage - Chhani   (B) Wind farm - Mandvi

(C) Biogas plant - Rudatal   (D) Hot water spring - Dantiwada

(153) Which region of Gujarat is known for its production of long staple cotton?

(A) Bhal region   (B) Charotar region

(C) Kanam region   (D) None of the above

(154) Given below are the reign periods of the rulers of Delhi sultanate. Select the correct pair of regin periods of these sultans.

(A)	(B)
A. Sayyaid Dynasty	1. 1320 A.D. - 1414 A.D.
B. Slave Dynasty	2. 1290 A.D. - 1320 A.D.
C. Khilji Dynasty	3. 1414 A.D. - 1451 A.D.
D. Tughlaq Dynasty	4. 1206 A.D. - 1290 A.D.

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

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

(155) Which of the following is not included in the architectural heritage of Indian historical heritage?

(A) Qutubminar   (B) Kirtistambh   (C) Patola of Patan   (D) Bhadra fort

(156) What should you not do to reduce soil pollution in your village ?

(A) Increase use of organic and compost fertilizer

(B) Drip and sprinkler irrigation system should be used in agriculture

(C) Plastic and solid waste should be recycled and reused

(D) Maximum use of insecticides to kill germs

(157) If Ishita is to go on a trip to the cold desert of India. Which region will she be visiting?

(A) Ladakh   (B) Kashmir   (C) White desert   (D) Himachal

(158) The formation of a force of 40 Turkish nobles during the sultanate period was known as ....

(A) Mansabdari   (B) Jagidari   (C) Samant shahi   (D) Chahalgani

(159) Gujarati poet .... is renowned for Prabhatiya.

(A) Narsinha Mehta   (B) Tukaram   (C) Mirabai   (D) Shamliya lal

(160) Jyoti has prepared a list of the rulers of the Solanki dynasty. Which of the lists is correct ?

(A) Mulraj, Krishnaraj, Pulkeshi first, Arjundev

(B) Siddharaj Jaysinh, Arnoraj Someswar, Kumarpal

(C) Mulraj, Bheemdev (first), Siddharaj Jaysinh, Kumarpal

(D) Bheemdev (first), Bheemdev (Second), Ajaypal, Govindchandra

(161) Which of the given pairs is not correct regarding the administration in Mughal dynasty?

(A) The head of the revenue system - Wazir

(B) The head of the Wealth - Waquianavis

(C) The head of the army - Mirbaksh

(D) The head of the justice - Kazi

(162) Which of the given details regarding Sun temple of Konark is correct ?

(1) This temple was built in the 13th century

(2) This temple is located in Karnataka

(3) This temple was built during the reign of King Narsinhavarman-I of Gang dynasty

(4) This chariot temple has 12 massive wheels

(A) Only 3 and 4   (B) Only 1 & 4   (C) Only 2 and 3   (D) Only 1 and 3

(163) Which of the given pairs is correct regarding the author and his work ?

(A) Tulsidas – Vinaypatrika

(B) Kalidas – Dasbodh

(C) Tukaram – Danilila

(D) Mirabai – Sudamacharitra

(164) The mantle of the ocean is called ....

(A) Nirf

(B) Sirsef

(C) Sial

(D) Sima

(165) Layer which is divided into two sub part - Ionosphere and Exosphere is known as ....

(A) Thermosphere

(B) Mesosphere

(C) Stratosphere

(D) Troposphere

(166) What type of the forests should Bhavya Visit to research hard and timber yielding plants like Teak, Bark, Neem, Sesame etc. ?

(A) Tropical Evergreen forests

(B) Tropical Deciduous forests

(C) Temperate Deciduous forests

(D) Temperate Evergreen forests

(167) Which of the following is not true regarding the qualifications to be a member of the Legislative Assembly?

(1)   His age should be 21 years or more

(2)   That person should not be a bankrupt

(3)   He must have a paid position in a Government Institution

(4)   He must neither be a convicted criminal nor be an insane

(A) Only 1 and 3

(B) Only 3 and 4

(C) Only 2 and 4

(D) Only 1 and 3

(168) Credit goes to Governor General ...., for introducing civil service in India

(A) Robert Clive

(B) Warren Hastings

(C) Cornwallis

(D) Wellesley

(169) Cryolite minerals found in Greenland, Europe are included in which type of resources ?

(A) Uniquilities Resources

(B) Common Resources

(C) Rare Resources

(D) Ubiquitous Resources

(170) Major Oil producing fields in India included :

(A) Ranigunj of West Bengal and Bokaro of Jharkhand

(B) Prandhro of Kutch and Lunej of Anand

(C) Digboi of Assam and Bombay High of Mumbai

(D) Khambhat basin and Krishna Godavari main triangle region

(171) Which industrial factories were started in Kulti, Burhanpur, Bhadravati in India during the British rule?

(A) Textile Industry

(B) Iron and Steel Industry

(C) Chemical Industry

(D) Shipbuilding Industry

(172) Who is known as the 'Bhoj of Andhra'?

(A) KrushnadevRai

(B) Hariharrai

(C) Narsinh Varman

(D) Pulkeshi II

(173) A chariot temple known as the Black Pagoda is situated in ....

(A) Maharashtra

(B) Odisha

(C) Madhya Pradesh

(D) Tamilnadu

(174) Igneous Rock : Basalt :: Sedimentary Rock : ....

(A) Granite   (B) Slate   (C) Sandstone   (D) Marble

(175) Which of the following is an example of seasonal wind ?

(A) Trade winds

(B) Winds of South-West

(C) Heat Waves

(D) Polar Winds

(176) What does this sign indicate?

(A) Do not turn right

(B) No U turn

(C) Do not turn left

(D) Pedestrian crossing

(177) When is the World Consumer day celebrated?

(A) 15 March   (B) 23 March   (C) 26 October   (D) 24 December

(178) Which mineral is useful in making storage batteries ?

(A) Zinc   (B) Lead   (C) Cobalt   (D) Manganese

(179) Which of the following is a scarce resource?

(A) Cryolite   (B) Uranium   (C) Mineral oil   (D) Nitrogen

(180) Dutch : Masulipatnam :: Danish : ....

(A) Fort Willam   (B) Puducherry   (C) Sirampur   (D) Balasore

♦♦♦

SPACE FOR ROUGH WORK

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પરીક્ષા પૂરી થયાબાદ OMR શીટ ખંડ નિરીક્ષકને પરત કર્યા બાદ જ પરીક્ષા ખંડ છોડવાનો રહેશે. તેમ કરવામાં કસૂર થયેથી શિસ્તભંગના પગલા લઇ પરીક્ષા માટે જે તે ઉમેદવારને ગેરલાયક ઠેરવવામાં આવશે.