

NS-2022-23

400373

TOTAL TIME : 180 Minutes

TOTAL MARKS : 180

Exam Time : 3.00 HOURS

SEAT No.

--	--	--	--	--	--	--

INSTRUCTIONS FOR STUDENTS

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

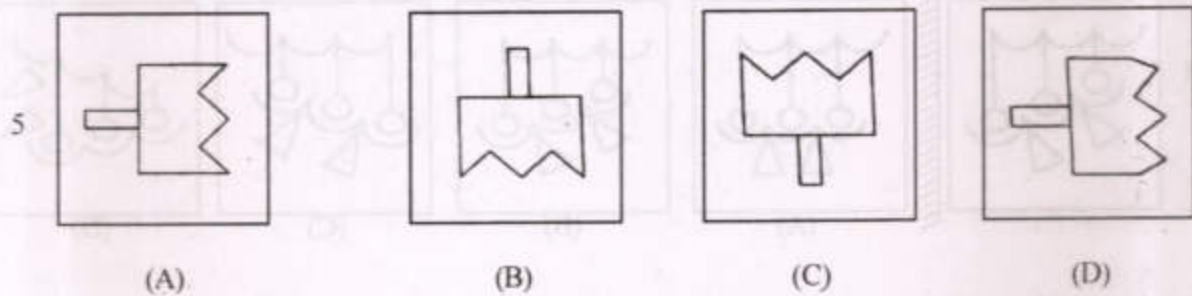
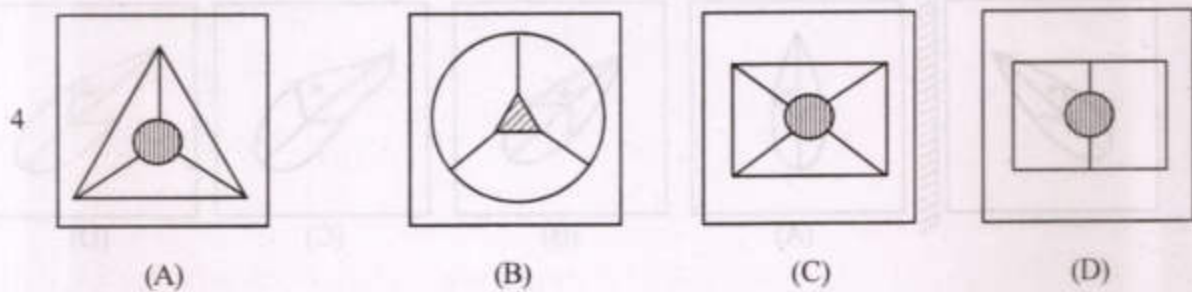
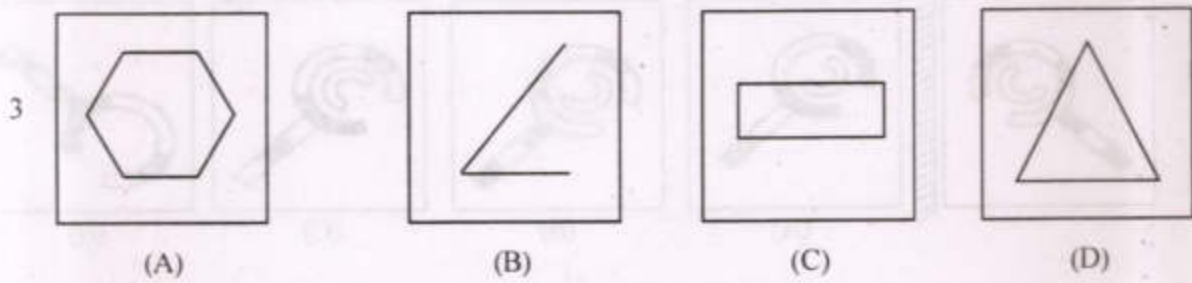
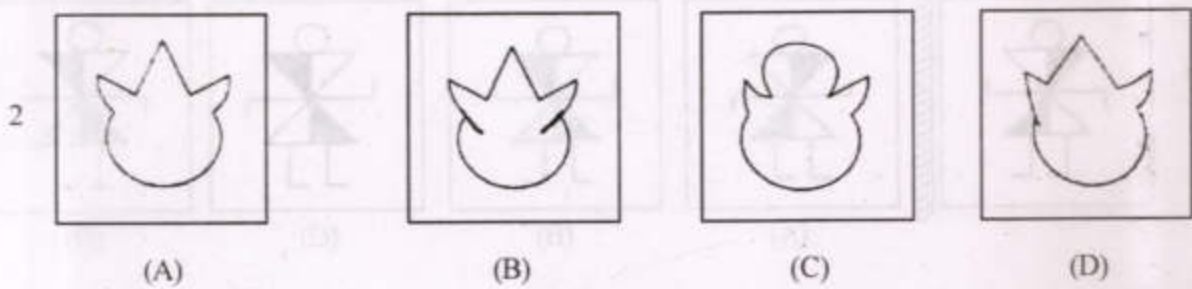
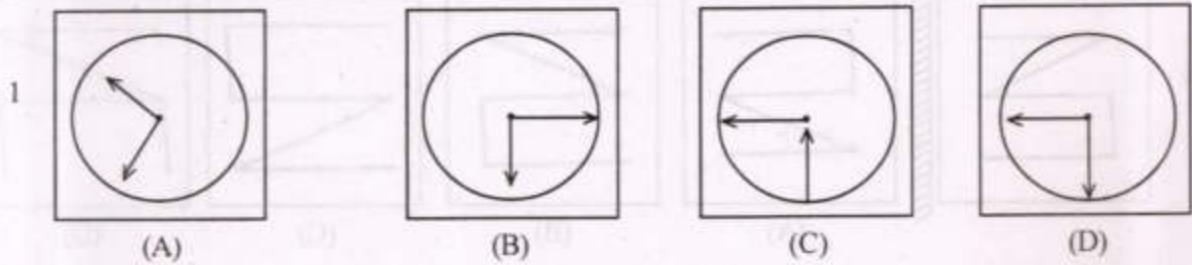
1. The following table contains number of sections, total number of questions, time and marks allotted.

Section	Name of Section	Que. No.	Marks
1.	Mental Ability Test	1 to 90	90
2.	Scholastic Aptitude Test	91 to 180	90
Total		180	180

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. Please do not mark anything against the options A, B, C, D in the question booklet.
9. Please also carefully read OMR and Hall ticket instructions.

SEAL

Instruction: In Q. No. 1 to 5, four figures are given in each question. One figure is different from the other three. Find the different figure.



Instruction: In Q. No. 6 to 10, mirror is given in the questions. Select the correct mirror image of the image given on left side from options given on right side.

	Question image	Mirror	Answer image			
6						
7						
8						
9						
10						

Instruction: In Q. No. 11 to 15, find the correct option of descending order by logical method.

- 11 1. District Education Officer (A) 1 - 3 - 2 - 4
2. Government executive (Mamlatdar) (B) 3 - 1 - 2 - 4
3. Collector (C) 4 - 2 - 1 - 3
4. Officer of a village (Talati) (D) 3 - 2 - 1 - 4

(according to post)

- 12 1. Hindi (A) 2 - 4 - 1 - 3
2. Science (B) 2 - 1 - 4 - 3
3. Sanskrit (C) 4 - 2 - 1 - 3
4. Gujarati (D) 4 - 3 - 2 - 1

(according to total hours in a week in time table)

- 13 1. Delhi (A) 1 - 3 - 2 - 4
2. Jaipur (B) 4 - 2 - 1 - 3
3. Jammu (C) 1 - 3 - 2 - 4
4. Mumbai (D) 3 - 1 - 2 - 4





(From North To South)

- 14 1. Centimeter (A) 2 - 3 - 1 - 4
2. Kilometer (B) 2 - 1 - 4 - 3
3. Feet (12 inch) (C) 4 - 2 - 1 - 3
4. Milimeter (D) 4 - 3 - 2 - 1

- 15 1. Municipality (A) 3 - 4 - 2 - 1
2. Lok Sabha (B) 2 - 3 - 4 - 1
3. Vidhan Sabha (C) 2 - 3 - 1 - 4
4. Taluka Panchayat (D) 3 - 2 - 4 - 1

- 16 If there is Sunday on February 12, 2023 then which day will be there on February 12, 2024?
(A) Tuesday (B) Sunday (C) Saturday (D) Monday
- 17 If there is Thursday before 3 days then which day will be there after 3 days?
(A) Thursday (B) Monday (C) Sunday (D) Tuesday
- 18 If March starts from Wednesday in a year then which days will be there 5 times in the same month?
(A) Sunday, Monday, Tuesday (B) Wednesday, Thursday, Friday
(C) Monday, Tuesday, Wednesday (D) Tuesday, Wednesday, Thursday
- 19 Vimal starts walking in opposite direction of northeast in a straight line. In which direction he is moving?
(A) Southwest (B) Northwest (C) Southeast (D) East
- 20 Arun is standing facing north at the time of Sunrise. In which direction his shadow will be formed?
(A) North (B) West (C) South (D) East
- 21 In a straight row, counting from the left side, if Ramesh is on the 15th position and from the right side he is on the 8th position then how many total students will be there in that row?
(A) 23 (B) 21 (C) Uncountable (D) 22
- 22 If Nivan is younger than Aarav. Pal is younger than Jay. Maitra is younger than Nivan then who is younger among all of them?
(A) Maitra (B) Nivan (C) Aarav (D) Pal
- 23 Minute hand of Ramesh's wall clock is in North direction at 1:15. If the wall clock is in the same position then at 3:30 the minute hand will be in which direction?
(A) North (B) South (C) West (D) East
- 24 Among four girls no one is taller than Peena. Meena is taller than Teena but not as tall as Reena. Who is shorter among all of them?
(A) Teena (B) Meena (C) Reena (D) Peena
- 25 The total of current ages of Dinesh and Ramesh is 31. What will be the total of ages of both after 7 years?
(A) 31 (B) 38 (C) 45 (D) 24

Instruction: In Q. No. 26 to 35, out of four options, three are same according to a specific rule or pattern. Find the different option.

- 26 (A)  (B)  (C)  (D) 
- 27 (A)

8	32	4
---	----	---

 (B)

7	21	3
---	----	---

 (C)

5	43	9
---	----	---

 (D)

4	28	7
---	----	---
- 28 (A) 27 (B) 64 (C) 81 (D) 125
- 29 (A) Football (B) Cricket (C) Hockey (D) Table Tennis
- 30 (A) Gold (B) Silver (C) Diamond (D) Platinum
- 31 (A) Rigveda (B) Samveda (C) Atharvaveda (D) Ayurveda
- 32 (A) Earth (B) Moon (C) Venus (D) Mars
- 33 (A) Corn (B) Peas (C) Fava Bean (D) Chickpeas
- 34 (A) January (B) May (C) July (D) November
- 35 (A) Jaipur (B) Ahmedabad (C) Bhopal (D) Lucknow

Instruction: In Q. No. 36 to 40, English words are shown by a specific rule or pattern in symbolic language. Given words can be written in the same rule or pattern. Find the correct option from the given options.

- 36 If RAJU = ARUJ, BIHARI = IBAHIR then KUMKUM = ?
 (A) UKKMMU (B) UKMKMU (C) UKKMUM (D) KUKMMU
- 37 If TABLE = UBCMF, CHAIR = DIBJS then SOFA = ?
 (A) TPDB (B) RPGB (C) TPGC (D) RPGC
- 38 If MALAY = 51312, LATA = 3161 then YAMLA = ?
 (A) 12531 (B) 12513 (C) 21531 (D) 21631
- 39 If BAD = YZW then BEST = ?
 (A) YVHG (B) YVGH (C) VYHG (D) VYGH
- 40 If BEST = 251920, BAD = 214 then GOOD = ?
 (A) 715154 (B) 715164 (C) 714154 (D) 716164

Instruction: In Q. No. 41 to 45, there is a specific relation between first two words and the two words given after “:”. Find the suitable option to replace (?) from the given options.

- 41 Doctor : Hospital :: ? : School
 (A) Class Room (B) Teacher (C) Prayer (D) Student
- 42 Car : Petrol :: Body : ?
 (A) Urine (B) Brain (C) Food (D) Sweat
- 43 Court : Justice :: School : ?
 (A) Examination (B) Education (C) Timetable (D) Table
- 44 Sodium : Element :: Salt : ?
 (A) Compound (B) NaCl (C) White (D) Salty
- 45 America : Dollar :: India : ?
 (A) Price (B) Rupees (C) Currency (D) None of the above.

Instruction: In Q. No. 46 to 50, select the correct option of ascending or descending order using logical method by considering the relation of four subjects.

- 46 1. River (A) 4 - 3 - 1 - 2
 2. Sea (B) 3 - 4 - 1 - 2
 3. Rain (C) 2 - 4 - 3 - 1
 4. Stream (D) 3 - 1 - 4 - 2
- 47 1. School (A) 2 - 1 - 4 - 3
 2. Bal Mandir (Nursery) (B) 4 - 2 - 1 - 3
 3. College (C) 1 - 2 - 3 - 4
 4. Home (D) 4 - 1 - 2 - 3
- 48 1. Sentence (A) 4 - 2 - 1 - 3
 2. Word (B) 4 - 1 - 2 - 3
 3. Alphabet (C) 3 - 2 - 4 - 1
 4. Passage (D) 3 - 1 - 2 - 4

- 49 1. District (A) 2 - 1 - 4 - 3
 2. State (B) 4 - 1 - 2 - 3
 3. Taluka (C) 4 - 2 - 1 - 3
 4. Country (D) 3 - 1 - 4 - 2
- 50 1. $8 \div (7 + 1)$ (A) 2 - 1 - 4 - 3
 2. $(20 \div 2) \div (4 + 1)$ (B) 4 - 2 - 1 - 3
 3. $(14 \times 3) \div (7 \times 1)$ (C) 1 - 2 - 3 - 4
 4. $(7 \times 5) \div (35 \times 2)$ (D) 4 - 1 - 2 - 3

Instruction: In Q. No. 51 to 55, Use '-' in place of '*', '×' in place of '#', '+' in place of '●' and '÷' in place of '★' and calculate to find the correct answer.

51 $5 \# 3 * 4 \# 2 \bullet 3$

- (A) 10 (B) 11 (C) 4 (D) -1

52 $36 \star 9 \bullet 3 \# 2 * 9$

- (A) -49 (B) $\frac{36}{15}$ (C) 1 (D) -1

53 $(16 \# 4) \bullet (12 \star 2)$

- (A) 38 (B) 16 (C) 128 (D) 70

54 $(22 \star 11) \# (35 * 30)$

- (A) 45 (B) 10 (C) $\frac{36}{15}$ (D) -3

55 $(6 \# 6) \star (13 * 4) \bullet 2$

- (A) $\frac{36}{11}$ (B) 12 (C) 6 (D) 32

Instruction: In Q. No. 56 to 65, write appropriate number in place of '?'

- 56 7, 8, 10, ?, 17, ?, 28
(A) 11, 19 (B) 13, 22 (C) 14, 19 (D) 15, 23
- 57 6, 12, 36, ?, 720
(A) 144 (B) 180 (C) 288 (D) 360
- 58 1, 4, 27, ?, 3125
(A) 64 (B) 128 (C) 256 (D) 625
- 59 1, 7, 21, ?, 73, 111
(A) 42 (B) 43 (C) 47 (D) 63
- 60 78, 71, 65, ?, 65, 53
(A) 60 (B) 61 (C) 59 (D) 58
- 61 2160, 360, ?, 18, 6
(A) 72 (B) 54 (C) 180 (D) 216
- 62 510, 254, 126, ?, 30, 14
(A) 63 (B) 62 (C) 60 (D) 61
- 63 6, 9, 10, 18, 14, ?, 18, 36
(A) 16 (B) 27 (C) 10 (D) 17
- 64 11, 16, 16, 21, 26, 16, ?, 36
(A) 31 (B) 16 (C) 36 (D) 33
- 65 6, 24, 12, 6, 24, 2, ?, 1
(A) 48 (B) 6 (C) 12 (D) 24

Instruction: In Q. No. 66 to 70 how many maximum triangles are there in the given figure?

66



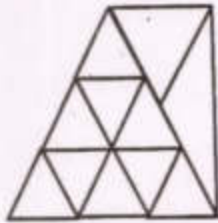
(A) 28

(B) 16

(C) 22

(D) 18

67



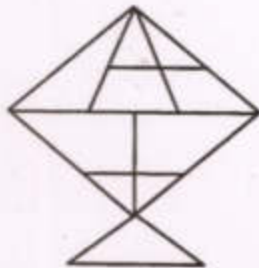
(A) 16

(B) 30

(C) 27

(D) 22

68



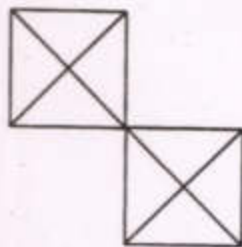
(A) 19

(B) 18

(C) 17

(D) 16

69



(A) 8

(B) 12

(C) 16

(D) 20

70



(A) 13

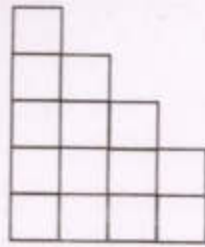
(B) 15

(C) 7

(D) 16

Instruction: In Q. No. 71 to 72 how many maximum squares are there in the given figure?

71



80 (A)

(A) 21

81 (B)

(B) 22

82 (C)

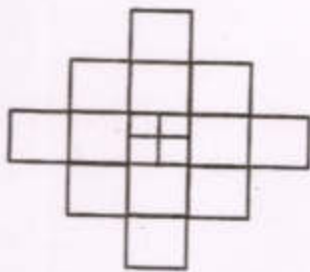
(C) 23

83 (D)

(D) 24



72



84 (A)

(A) 21

85 (B)

(B) 22

86 (C)

(C) 23

87 (D)

(D) 24



Instruction: In Q. No. 73 to 75 how many maximum rectangles are there in the given figure which are not squares?

73



88 (A)

(A) 8

89 (B)

(B) 10

90 (C)

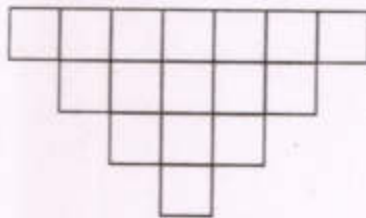
(C) 12

91 (D)

(D) 14



74



92 (A)

(A) 68

93 (B)

(B) 72

94 (C)

(C) 80

95 (D)

(D) More than 80



75



96 (A)

(A) 45

97 (B)

(B) 30

98 (C)

(C) 31

99 (D)

(D) 14



Instruction: In Q. No. 76 to 80, each question contains an English word. Arrange the alphabets of the given word in correct sequence according to the alphabetical order.

76 MARCH

- (A) AHMCR (B) ACMHR (C) ACRHM (D) ACHMR

77 GLOWS

- (A) GLOSW (B) GLOWS (C) GOLSW (D) GLWSO

78 JUNKY

- (A) JNKYU (B) JNKUY (C) JKNUY (D) JKNYU

79 DEBIT

- (A) BEDIT (B) BDEIT (C) BDETI (D) BDIET

80 AUDIO

- (A) AIDOU (B) ADOIU (C) ADIOU (D) DAIUO

Instruction: In Q. No. 81 to 85 each Gujarati letter is represented by a specific digit. Use them to find out the correct option from the given options.

Number : 1 3 5 7 9 2 4 6 8

Alphabet : V D N G R J S A B

81 SGVD = ?

- (A) 4531 (B) 4513 (C) 4713 (D) 4371

82 VN + AR = ?

- (A) 84 (B) 68 (C) 72 (D) 78

83 RB - JD = ?

- (A) 66 (B) 75 (C) 65 (D) 86

84 AS - NV = ?

- (A) RG (B) JD (C) ND (D) VD

85 Which is not the correct option?

- (A) NV > VN (B) R x B = GJ (C) VRS < VAN (D) RA + GJ = VAB

Instruction: In Q. No. 86 to 90 arrange the options in descending order by logical method.

- 86 1. States of India (A) 2-4-3-1
2. Union territories of India (B) 3-2-1-4
3. Plots (C) 4-2-3-1
4. Districts of Gujarat (D) 4-1-3-2
(On the basis of numbers)

- 87 1. Whale (A) 2-4-3-1
2. Starfish (B) 2-1-4-3
3. Elephant (C) 2-4-1-3
4. Tiger (D) 2-1-3-4
(On the basis of size)

- 88 1. Knowledge (A) 3-4-2-1
2. Jute Cloth (B) 4-1-2-3
3. Drawer (C) 3-2-1-4
4. Refuge (D) 4-2-3-4
(According to dictionary order)

- 89 1. Christmas (A) 1-3-2-4
2. Janmashtami (B) 3-2-1-4
3. Gandhi Jayanti (C) 3-2-4-1
4. Shivratri (D) 4-2-3-1
(According to sequence of calendar)

- 90 1. LCM of 3 and 4 (A) 4-2-3-1
2. HCF of 2 and 12 (B) 4-3-2-1
3. Smallest Divisible Number (C) 1-2-3-4
4. Smallest Natural Number (D) 1-3-2-4

- 91 Which is the inverse number of -5 ?
(A) 5 (B) 0 (C) $\frac{1}{5}$ (D) $-\frac{1}{5}$
- 92 For which of the following process rational numbers are not possible?
(A) Addition (B) Subtraction (C) Multiplication (D) Division
- 93 Which of the following statements is incorrect for whole numbers?
(A) Total of two positive whole numbers is always a positive whole number.
(B) Total of a positive and a negative whole numbers is always a negative whole number.
(C) Total of two negative whole numbers is always a negative whole number.
(D) Opposite number of 8 is (-8) .
- 94 In an exam of 15 questions 4 marks for all correct answers and (-2) marks for all incorrect answers are allotted. Monika gave 5 correct answers and the rest of her answers are incorrect. Calculate Monika's total marks.
(A) 10 (B) 5 (C) 0 (D) (-10)
- 95 $4 - 2 \frac{3}{5} = ?$
(A) $1 \frac{2}{5}$ (B) 2 (C) $2 \frac{3}{5}$ (D) $2 \frac{2}{5}$
- 96 $\frac{1}{2}$ of 16 can be shown as
(A) $16 + \frac{1}{2}$ (B) $16 - \frac{1}{2}$ (C) $16 + \frac{1}{2}$ (D) $16 \div \frac{1}{2}$
- 97 What is the place value of 2 in 63.752?
(A) 2 (B) $\frac{2}{10}$ (C) $\frac{2}{100}$ (D) $\frac{2}{1000}$
- 98 There is 20 liter, 50 liter, 60 liter, 15 liter and 5 liter water respectively in 5 water pots. If this water needs to be filled in equal amount in all the water pots then how much water is required in each pot?
(A) 50 liter (B) 20 liter
(C) 30 liter (D) 60 liter

- 99 Fifth part of x is more by 6 to 7. Equation form of this statement is
- (A) $x + 5 = 6 - 7$ (B) $\frac{x}{6} + 6 = 7$ (C) $\frac{x}{5} - 6 > 7$ (D) $\frac{x}{5} - 6 = 7$
- 100 Which is the complementary angle of 27° ?
- (A) 153° (B) 73° (C) 63° (D) 23°
- 101 Interior angle formed from cross section of two parallel lines is
- (A) Linear (B) Complementary (C) Acute (D) Obtuse
- 102 Which statement is not always true for a triangle?
- (A) Median of a triangle is always inside the triangle.
- (B) Center of a triangle is always inside the triangle.
- (C) Exterior angle of a triangle is equal to total of adjacent inner angles.
- (D) Total of all the three angles of a triangle is 180° .
- 103 What is equal ratio of 30:35?
- (A) 42 : 49 (B) 3 : 7 (C) 3 : 5 (D) 60 : 80
- 104 What is the standard form of $\frac{45}{30}$?
- (A) $-\frac{3}{2}$ (B) $\frac{3}{2}$ (C) $-\frac{45}{30}$ (D) $-45 : 30$
- 105 What is the circumference of a circle having diameter of 14 cm? ($\pi = \frac{22}{7}$)
- (A) 14 cm. (B) 44 cm (C) 88 cm. (D) 140 cm
- 106 What is the numerical cofactor of x^4 in $27y - x^4$?
- (A) 24 (B) 4 (C) 1 (D) (-1)
- 107 What will be the simple form of $(b^4)^2 \times b^2 \div b^4$?
- (A) b^6 (B) b^4 (C) b^2 (D) $4b^{22}$

108 Select the suitable option after reading the following statements?

Statement: 1 (-7) is a natural number.

Statement: 2 $(\frac{3}{7})$ is a commensurable number.

(A) Statement 1 is true.

(B) Statement 2 is true.

(C) Both the statements are true.

(D) Both statements A and B are false.

109 Solve : $2x - 1 = 14 - x$

(A) $x = (-3)$

(B) $x = 3$

(C) $x = 15$

(D) $x = (-15)$

110 The ratio of present ages of Hari and Ram is 2:3. Five years later if the ratio of both of their ages is 3:4 then what will be the ratio of both of their ages after 10 years ?

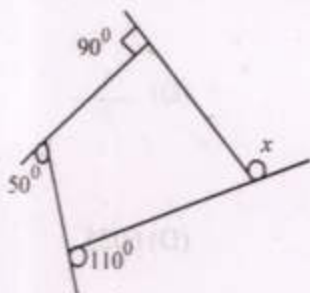
(A) 4:3

(B) 2:4

(C) 5:4

(D) 4:5

111 Find the value of x in the following figure.



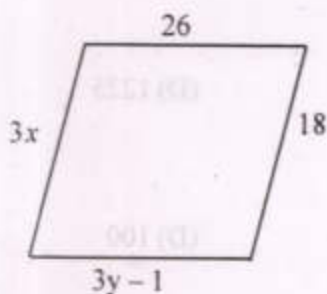
(A) 90

(B) 120

(C) 110

(D) 160

112 In the following figure $x + y =$ _____



(A) 16

(B) 15

(C) 45

(D) 3

Instruction: Give answers of Q. 113 and Q. 114 from the given figure only.



113 What is the percentage time used in playing games?

- (A) 24 % (B) 25 % (C) 12.5 % (D) 30 %

114 What is the percentage time used for sleep and homework?

- (A) 50% (B) 12 % (C) 100% (D) 75 %

115 There are 7 blue balls, 8 red balls, and 5 green balls in a box. If a ball selected randomly is red then what will be its probability?

- (A) $\frac{7}{20}$ (B) $\frac{15}{20}$ (C) $\frac{2}{5}$ (D) $\frac{3}{5}$

116 Square of cuberroot of 91125 is _____.

- (A) 91125 (B) 45 (C) 2025 (D) 6025

117 How much money is required for purchasing an item of Rupees 550 with 20% discount?

- (A) ₹ 110 (B) ₹ 530 (C) ₹ 440 (D) ₹ 500

118 $35^2 = \dots\dots\dots$

- (A) 2125 (B) 425 (C) 1025 (D) 1225

119 Square root of 6400 is _____.

- (A) 40 (B) 60 (C) 80 (D) 100

120 Take out the inappropriate statement:

- (A) Total of right angles is 90°
 (B) Total of complementary angles is 180°
 (C) Total of angles of linear pairs is 270°
 (D) Vertical angles are always equal

- 121 Elements found in dung cake fertilizer or chemical fertilizer are?
(A) nitrogen, potassium and phosphorus
(B) nitrogen, carbon dioxide, phosphorus
(C) oxygen, sodium, potassium
(D) oxygen, sodium, nitrogen
- 122 What is the maximum temperature mark of a clinical thermometer?
(A) 0 to 14 (B) 35 to 42 (C) 50 to 78 (D) 94 to 108
- 123 Which of the following animals is often found in polar region?
(A) Elephant (B) Tiger (C) Reindeer (D) Gorilla
- 124 Which of the following is not there in a stethoscope?
(A) Diaphragm
(B) Tube filled with mercury
(C) Earpiece
(D) Tube
- 125 $\text{---} \mid \text{---}$ is the term used for which part of an electric circuit?
(A) Electric bulb (B) Electric cell
(C) Open electric particle (D) Wire joint
- 126 Which of the following statements is wrong for an image obtained from a plain mirror?
(A) Image is erect/upright.
(B) The distance from the mirror to the object and to its image is different.
(C) Image is equal to the object.
(D) Left part of object becomes right part in image.
- 127 Which of the following is an autumn crop?
(A) Chickpeas (B) peas (C) wheat (D) paddy

- 128 Which of the following disease is caused by a virus?
- (A) cholera (B) typhoid (C) malaria (D) polio
- 129 Identify re-acquirable natural resource.
- (A) Coal (B) Petroleum (C) Air (D) Natural gas
- 130 The total thermal energy obtained from burning 1 kg of fuel will be called as?
- (A) Combustion value (B) Calorie value (C) Joule value (D) Energy value
- 131 From which of the following oxalic acid can be obtained?
- (A) An orange (B) Lemon (C) Amla (D) Spinach
- 132 Water is an invaluable resource. To increase awareness for it, World Water Day is celebrated on ____.
- (A) February 22 (B) February 12 (C) March 12 (D) March 22
- 133 Age of Rama Bhai is 63 years. He has difficulty in reading small letters so he can read easily by using _____.
- (A) Concave lens (B) Convex lens (C) Concave mirror (D) Convex mirror
- 134 Which of the following flower is not unisexual?
- (A) Cucumber (B) Mustard (C) Papaya (D) Corn
- 135 ____ found in blood fights with germs entering human body.
- (A) Red blood cells (B) White blood cells (C) Traction cells (D) Hemoglobin
- 136 What is the full form of MCB?
- (A) Minimum circuit breaker
- (B) Maxim circuit breaker
- (C) Miniature circuit breaker
- (D) Minibature circuit breaker

- 137 Arrange the following steps appropriately:
- (i) Irrigation, (ii) Collection, (iii) Planting, (iv) Protection from weeds, (v) Harvesting
- (A) (ii) – (iii) – (iv) – (i) – (v)
(B) (iii) – (i) – (iv) – (v) – (ii)
(C) (iii) – (i) – (iv) – (ii) – (v)
(D) (ii) – (iii) – (iv) – (v) – (i)
- 138 To preserve guava, jelly, and fruit juices which of the following is mixed as a preservative?
- (A) Salt (B) Sugar (C) Vinegar (D) Oil
- 139 What is the formula of Sulfurous Acid?
- (A) H_2SO_3 (B) H_2SO_4 (C) H_2CO_3 (D) H_2PO_4
- 140 Which of the following statements is incorrect?
- (A) Metals make oxide on burning with oxygen.
(B) Oxides of nonmetals are acidic in nature.
(C) Oxides of metal are neutral.
(D) Hydrogen is produced upon reaction of metals with acid
- 141 Living creatures themselves make food from simple substances. This process is called _____.
- (A) Parasitic nutrition (B) Autotrophic nutrition
(C) Saprotrophic nutrition (D) Symbiotic nutrition
- 142 Total number of incisors is _____.
- (A) 4 (B) 6 (C) 8 (D) 10
- 143 If there is a steel spoon in a glass of warm milk then heat transfers from the other end of spoon. This process is known as _____.
- (A) Heat conduction (B) Heat convection (C) Heat radiation (D) Heat emission

- 144 Which acid is found in curd?
- (A) Formic acid
 - (B) Citric acid
 - (C) Acetic acid
 - (D) Lactic acid
- 145 What kind of change is burning of wood?
- (A) Physical change
 - (B) Chemical change
 - (C) Recycled change
 - (D) Reversible change
- 146 The process of polishing zinc on iron is called _____.
- (A) Displacement
 - (B) Oxidation
 - (C) Reduction
 - (D) Galvanization
- 147 The pressure of air ____ with increased velocity of air.
- (A) decreases
 - (B) increases
 - (C) remains constant
 - (D) does not change
- 148 Hemoglobin is present in _____.
- (A) white blood cells
 - (B) traction particles
 - (C) red blood cells
 - (D) platelets
- 149 Which of the following relation is correct?
- (A) Velocity = Distance \times Time
 - (B) Velocity = $\frac{\text{Distance}}{\text{Time}}$
 - (C) Velocity = $\frac{\text{Time}}{\text{Distance}}$
 - (D) Velocity = $\frac{1}{\text{Distance} \times \text{Time}}$

- 150 Clean Fuel is
- (A) Petrol (B) Diesel
(C) CNG (D) Kerosene
- 151 A student was making a list of kings of Parmar dynasty. Which of the following options of list is correct having names of three kings?
- (A) Siyak, Munj, Bhoj
(B) Madanchandra, Govindchandra, Munj
(C) Munj, Bhoj, Ajayraj
(D) Yashovarman, Kirtivarman, Paramhirdev
- 152 Which of the following options is a construction in Aurangzeb's era?
- (A) Tomb of Salim Chishti
(B) Tomb of Sasaram
(C) Moti Masjid
(D) Tomb of Rabia-Ud-Dauran
- 153 A teacher was giving information about Giridurg to his students. They had gone in which district to see Giridurg?
- (A) Mehsana
(B) Patan
(C) Junagadh
(D) Ahmedabad
- 154 A person wanted to purchase two treatises of Tulsidas. Which of the following treatises will you suggest him to fulfill his wish?
- (A) Vinay Patrika, Dasbodh
(B) Beejak, Vinay Patrika
(C) Dasbodh, Ramcharitmanas
(D) Vinay Patrika, Ramcharitmanas

- 155 Students of a class have come to see Jagannath Temple, Puri, Odisha. Which dynasty's king had built this temple?
- (A) Ganga Dynasty
 - (B) Rashtrakuta Dynasty
 - (C) Maitra Dynasty
 - (D) Sen Dynasty
- 156 A person went to study temples of Dravida Style. Which of the following temples will be chosen to study?
- (A) Jagannath Temple(Puri)
 - (B) Brihadeshwar (Raj Rajeshwar) Temple
 - (C) Surya Temple (Modhera)
 - (D) Hoysaleswara Temple (Halebidu)
- 157 Surface of a plot of land is made up of which minerals?
- (A) Silica - Alumina
 - (B) Silica - Magnesium
 - (C) Nickel - Ferrous
 - (D) Nickel - Alumina
- 158 A student is making structure of various layers of environment. Which of the following options of ascending order from earth's surface is correct?
- (A) Troposphere, Mesosphere, Isothermal sphere, Thermosphere
 - (B) Thermosphere, Mesosphere, Troposphere, Isothermal sphere
 - (C) Isothermal sphere, Mesosphere, Troposphere, Thermosphere
 - (D) Troposphere, Isothermal Sphere, Mesosphere, Thermosphere

159 A woman needs different kind of ingredients to make sweets for his son's marriage. She should look for which quality sign at the time of purchasing ingredients?

(A) Agmark

(B) Hallmark

(C) ISI

(D) Bullmark

160 Name the feudatory of Bihar who led the war of independence at the age of 82 years?

(A) Begum Hazrat Mahal

(B) Tatyia Tope

(C) Kunwar Singh

(D) Nana Saheb Peshwa

161 What kind of effect will be seen on soil of ground due to excessive use of chemical fertilizers?

(A) Soil will be azoic forever

(B) Quality of soil drops

(C) Soil becomes fertile

(D) Soil becomes soft

162 World Heritage Site, Rani Ni Vav was built by the queen Udayamati, wife of Bheemdev(pratham). Bheemdev was the king of which dynasty?

(A) Solanki

(B) Parmar

(C) Chauhan

(D) Chandel

163 Ballal created treatises 'Dan Sagar' and 'Adbhut Sagar' What was the name of father of Ballal?

- (A) Arjun Dev
- (B) Sarang Dev
- (C) Gopal Sen
- (D) Vijay Sen

164 Which dynasty's king established Vidyasagar (name of his teacher) as capital of state?

- (A) Arvindu Dynasty
- (B) Saluv Dynasty
- (C) Sangam Dynasty
- (D) Tuluv Dynasty

165 Which of the following options is not correct in the context of Sun Temple of Konark?

- (A) Temple is situated near the Bay of Bengal.
- (B) Temple was built during the rule of King Narsingh Berman - I
- (C) Temple was built in 12th century
- (D) Temple is also known as "Black Pagoda"(Kala Pagoda)

166 Identify the incorrect pair of the following authors and their compositions:

- (A) Padmavat-Padmanabh
- (B) Hitopadesh - Narayan
- (C) Leelawati - Bhaskaracharya
- (D) Geetgovindam - Jaydev

167 Who cannot be included as the authors of Lord Krishna bhakti songs ?

- (A) Chaitanyamahaprabhu
- (B) Tulsidas
- (C) Soordas
- (D) Meerabai

- 168 In prayer treatise "Avesta" there is a prayer for regret. Followers of this treatise offer their prayers at which place?
- (A) Gurudwara
 - (B) Mosque
 - (C) Fire temple (Agiyaari)
 - (D) Temple
- 169 Various substances brought by glaciers and small hills forming in their flow are known as?
- (A) Drumlin
 - (B) Loas
 - (C) Stack
 - (D) Delta
- 170 Which sphere is divided between two parts ionosphere and exosphere?
- (A) Mesosphere
 - (B) Thermosphere
 - (C) Isothermal sphere
 - (D) Troposphere
- 171 In 1698, britishers got land ownership of 3 villages. Select the correct option of those three villages:
- (A) Surat, Kalighat, Govindpur
 - (B) Sutnuti, Kalighat, Govindpur
 - (C) Balasore, Surat, Kalighat
 - (D) Surat, Balasor, Patna
- 172 Where will you visit for the plant of Geothermal energy in India?
- (A) Odisha and Assam
 - (B) Madhya Pradesh and Maharashtra
 - (C) Himachal Pradesh and Ladakh
 - (D) Gujarat and Uttar Pradesh

- 173 Who worked as a president of constituent assembly to make constitution?
- (A) Dr. Babasaheb Ambedkar
 - (B) Dr. Rajendra Prasad
 - (C) Jawaharlal Nehru
 - (D) Sardar Vallabhbhai Patel
- 174 At which place Britishers first established their factory in India?
- (A) Surat
 - (B) Calicut
 - (C) Madras
 - (D) Hugli
- 175 Who was the first martyr of war of 1857?
- (A) Rani Laxmibai
 - (B) Taty Tope
 - (C) Mangal Pandey
 - (D) Garbad Das
- 176 Which is the present capital of India?
- (A) Delhi
 - (B) Gandhi Nagar
 - (C) Mumbai
 - (D) Surat
- 177 Delhi is situated at the bank of which river?
- (A) Ganga
 - (B) Satluj
 - (C) Brahmaputra
 - (D) Yamuna

178 Where did Jamshedjitata first established iron factory?

(A) Sakchi

(B) Madras

(C) Madurai

(D) Solapur

179 What was established by Gandhiji at Ahemdabad in 1920?

(A) Gujarat Vidyapeeth

(B) Dandi Ashram

(C) Tolstoy Ashram

(D) Sanskrit Vidyapeeth

180 What is the name of mother of Swami Vivekananda?

(A) Bhuvneswari Devi

(B) Rajeshwari Devi

(C) Saraswati Devi

(D) Mamteshwari Devi

