

Sample Questions *for*

ASAT

(ALLEN Scholarship Admission Test)

CLASSROOM CONTACT PROGRAMME

PRE-NURTURE & CAREER FOUNDATION : CLASS-VIII
(FOR VII to VIII MOVING STUDENTS)



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MENTAL ABILITY

1. In the given question, arrange the given words in a meaningful sequence and then choose the most appropriate sequence from amongst the alternatives provided below question.

1. Doctor 2. Fever 3. Prescribe 4. Diagnose 5. Medicine

- (1) 2, 1, 4, 3, 5 (2) 2, 3, 1, 5, 4 (3) 2, 1, 3, 4, 5 (4) 2, 4, 3, 5, 1

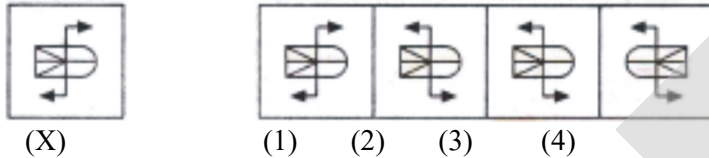
2. A man is facing South. He turns 135° in the anticlockwise direction and then 180° in the clockwise direction. Which direction is he facing now?

- (1) North-East (2) North-West (3) South-East (4) South-West

3. If PICTURE is coded as QJDUVSF, then PATCH would be coded as:

- (1) QBUI (2) OBDUI (3) QBUDI (4) QCUBI

4. In the following question, choose the correct mirror image from alternatives (1), (2), (3) and (4) of the figure (X).



5. Arrange the given words in alphabetical order and choose the one that comes third :

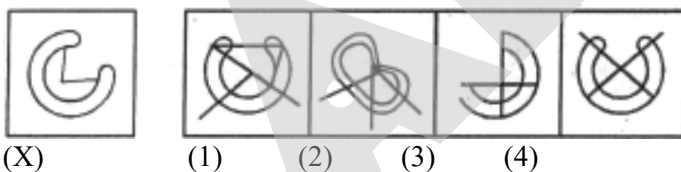
- (1) Rigour (2) Remove (3) Retrospect (4) Revive

6. In the given question, one number is missing in the series. You have to understand the pattern of the series and insert the number.

6, 7, 9, 13, 21, ...

- (1) 25 (2) 37 (3) 32 (4) None of these

7. In the given question, choose the alternative figure in which the question figure (X) is embedded.



8. The time in the watch is quarter to three. If the minute hand points of North-East, in which direction does the hour hand point ?

- (1) North-West (2) South-West (3) South-East (4) North-East

9. Select one alternative which exactly matches with the mirror image of the word in question.
PERFECTION

- (1) NOITCEFERP (2) RPEFECTION (3) NOITCEFFERP (4) ERPFECTION

10. How many such pairs of letters are there in word ' PRODUCTION' each of which has as many letters between them as in the English alphabet ?

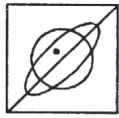
- (1) None (2) One (3) Two (4) Three

11. Direction : Answer the given question referring to the symbol-letter-number sequence given below :

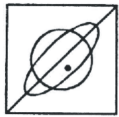
@ \$ 5 # A α U X N \geq 1 ! 9 G β % Ω S 3 2 F £ T 6 σ

What is the total number of “the symbols immediately preceded by a letter” in the above sequence?

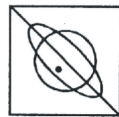
- (1) 5 (2) 3 (3) 2 (4) 4
12. If '+' means '-'; '-' means '×'; and '×' means '+'; then $12 + 2 \times 10 + 8 - 2$ will be
- (1) 0 (2) 10 (3) 16 (4) None of these
13. If REASON is coded as 5 and BELIEVED as 7, what is the number code for GOVERNMENT ?
- (1) 6 (2) 8 (3) 9 (4) 10
14. Choose the correct water-image of the figure (X).



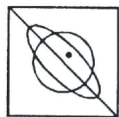
(X)



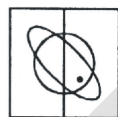
(1)



(2)

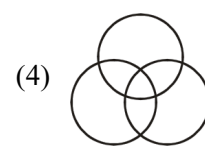
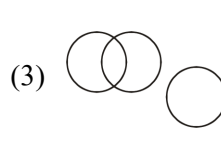
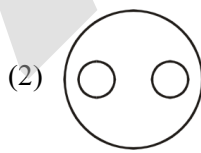
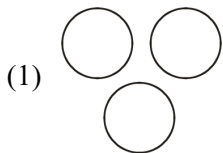


(3)



(4)

15. A man start from a point P and goes 4 km in North direction, after that he turns left and goes 3 km and reaches the point Q. Find the distance PQ.
- (1) 20 km (2) 9 km (3) 5 km (4) 10 km
16. Find out the wrong term in the number series : 1236, 2346, 3456, 4566, 5686
- (1) 1236 (2) 3456 (3) 4566 (4) 5686
17. Find the odd one out :
- (1) 19 (2) 7 (3) 9 (4) 13
18. In the given question, find out which of the alternative (1), (2), (3) or (4) indicates the correct relationship among the three given words.
Elected house, M.P., M.L.A.



19. In the given question, a word is followed by four alternatives (1), (2), (3) and (4) showing possible water image of that word. One out of these four alternative shows the exact water-image of that word. Choose the alternative which shows the correct water-image of that word.

na $\frac{1}{2}$ ional

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


20. If $X \% Y = X + Y + XY - 10$, then $10 \% 12$ is equal to—


- (1) 130 (2) 132 (3) 134 (4) None of these


PHYSICS

21. The path of electricity is called :
- (1) Circuit (2) Filament (3) Orbit (4) None of these
22. Which scale is used to calculate the magnitude of an earthquake ?
- (1) Seismograph (2) Seismograms
(3) Richter scale (4) All of the above
23. Celsius is a unit of :
- (1) Temperature (2) Heat
(3) Specific heat (4) Latent heat
24. A wind vane is used to detect :
- (1) Wind speed (2) Wind pressure
(3) Wind direction (4) Wind temperature
25. In a three pin socket, the biggest hole is connected to :
- (1) Any wire (2) Live wire
(3) Neutral wire (4) Earth wire
26. Moving air is called :
- (1) Earthquake (2) Wind
(3) Lightning (4) Landslide
27. The number of gradations, on a Kelvin scale, between the melting point and boiling point of water is :
- (1) 273 (2) 100 (3) 373 (4) 212
28. The value of magnetic field of a conductor _____ with _____ in value of current in conductor :
- (1) Increases, Increase (2) Decreases, Decrease
(3) Increases, Decrease (4) Both (1) & (2) are correct
29. Four hot metallic articles which are coloured as blue, red, black and white but have same temperature and then, they are allowed to cool. Which will have the fastest cooling rate ?
- (1) White (2) Red (3) Blue (4) Black
30. During thunderstorms :
- (1) Lightning is seen first
(2) Thunder sound is heard first
(3) Both of them are heard and seen simultaneously
(4) No lightning and thunder sound is there

31. "Electric fuse" :
- (1) Is a safety device
 - (2) Works on the principle of heating effect of current
 - (3) Saves electric appliances from sudden heavy currents
 - (4) All of above are correct
32. The centre of a cyclone is called :
- (1) Origin
 - (2) Mean point
 - (3) Eye
 - (4) Central point
33. Which of the following conversion formula is correct ?
- (1) $K = C + 273$
 - (2) $F = \frac{9}{5}C + 32$
 - (3) $C = K - 273$
 - (4) All are correct
34. A lightning discharge can take place between two _____ bodies.
- (1) Oppositely charged
 - (2) Similarly charged
 - (3) Negatively charged
 - (4) Uncharged
35. Which is not a device based on the heating effect of electricity ?
- (1) Heater
 - (2) Toaster
 - (3) Refrigerator
 - (4) Electric iron
36. Thunder and lightning occur due to the collision of :
- (1) Atoms
 - (2) Molecules
 - (3) Charges
 - (4) Clouds
37. Good absorbers of heat are :
- (1) Poor emitters
 - (2) Non emitters
 - (3) Good emitters
 - (4) None of these
38. Which of the following appliance doesn't use electromagnet ?
- (1) Washing machine
 - (2) Refrigerator
 - (3) Room Heater
 - (4) Electric bell
39. Which of the following figure is correct ?
- (1)

Hot body	 Heat	Cold body
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 - (2)

Cold body	 Heat	Hot body
-----------	--	----------
 - (3)

Hot body	 Heat	Cold body
----------	---	-----------
 - (4) None of these
40. A lightning conductor is made up of :
- (1) An insulating material
 - (2) Copper
 - (3) Gold
 - (4) A semiconductor material

CHEMISTRY

41. Which among the following is not a property of acids ?
- Acids are sour in taste
 - Acids turn turmeric solution to reddish brown in colour
 - Acids react with bases to form salt and water
 - Acids turn blue litmus to red in colour
42. Dissolving of salt in water is a _____ .
- Chemical change
 - Physical change
 - Both (1) and (2)
 - Can't say
43. Which of the following is acidic in nature?
- Lemon juice
 - Vinegar
 - Soft drinks
 - All of these
44. Constituents of water are :
- Hydrogen and nitrogen
 - Hydrogen and carbon
 - Hydrogen and oxygen
 - Oxygen and nitrogen
45. After burning the magnesium ribbon, it produces _____ .
- Magnesium sulphide
 - Magnesium oxide
 - Magnesium hydroxide
 - None of these
46. Which of the following is used in making soap?
- Hydrochloric acid
 - Sulphuric acid
 - Sodium hydroxide
 - Calcium hydroxide
47. Which of the following is mostly used as a drinking water source by us ?
- Sea water
 - Glaciers
 - Ground water
 - None of these
48. The process of selecting parents for obtaining special characters is termed as:
- Selection
 - Selective breeding
 - Separating
 - Rearing
49. Which microbe is used to decompose sludge into biogas?
- Aerobic bacteria
 - Anaerobic bacteria
 - Algae
 - All of these
50. Which of the following can be used to disinfect the clean water in a sewage treatment plant before releasing it into the distribution system?
- A. Iodine B. Ozone C. Oxygen D. Chlorine
- A and B
 - B and C
 - B and D
 - only D

51. Oxalic acid is present in :
(1) Curd (2) Spinach (3) Amla (4) Grapes
52. A change in which a substance undergoes changes only in its physical properties is called ?
(1) Physical change
(2) Chemical change
(3) Both (1) and (2)
(4) None of these
53. Source of 'Citric acid' is/are :
(1) Amla (2) Lemon (3) Oranges (4) All of these
54. Treatment of waste water involves:
(1) Physical processes
(2) Chemical processes
(3) Biological processes
(4) All of these
55. Which of the following is not a chemical change?
(1) Burning of woods (2) Melting of ice
(3) Rusting (4) Explosion of firework
56. Magnesium hydroxide is a _____.
(1) Base (2) Salt (3) Acid (4) Neutral
57. Sewage includes:
(1) Human excreta (2) Kitchen waste
(3) Industrial waste (4) All of these
58. Silk production involves the cultivation of :
(1) Blackberry trees (2) Mulberry trees
(3) Gooseberry trees (4) Strawberry trees
59. WWTP stands for:
(1) Waste water therapy
(2) Waste water treatment plant
(3) Waste water travel plant
(4) None of these
60. Which natural indicator extracted from lichens?
(1) Litmus (2) Turmeric (3) China rose (4) All of these

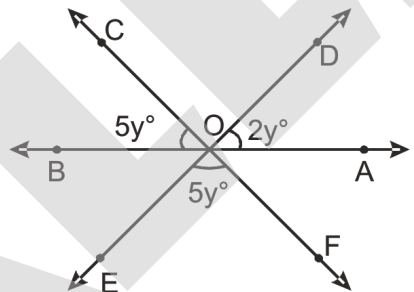
BIOLOGY

61. Organisms which convert dead plants and animals to humus are known as :
(1) Herbivores (2) Carnivores (3) Producers (4) Decomposers
62. In human haemoglobin is present in :
(1) Platelets (2) Plasma (3) WBC (4) RBC
63. Bryophyllum plant reproduces vegetatively by:
(1) Leaf bud (2) Adventitious leaves by flower
(3) Root (4) Stem
64. In photosynthesis :
(1) CO₂ is produced (2) Glucose is produced
(3) O₂ is used (4) None of these
65. Which of the following statements is not correct ?
(1) Forests protect the soil from erosion
(2) Plants and animals in a forest are not dependent on one another
(3) Forests influence the climate and water cycle
(4) Soil helps forests to grow and regenerate
66. Respiration is the reverse of :
(1) Protein synthesis (2) Photosynthesis
(3) Fat synthesis (4) Transpiration
67. The energy change in photosynthesis is from :
(1) Light energy to physical energy
(2) Light energy to tidal energy
(3) Light energy to chemical energy
(4) Chemical energy to light energy
68. Heart of man is :
(1) 2 chambered (2) 3 chambered
(3) 4 chambered (4) 13 chambered
69. Branchy part of tree above the stem is known as :
(1) Understorey (2) Forest bed
(3) Crown (4) None of these
70. Respiration can occur :
(1) Only at Night (2) Only during the day
(3) Both day and Night (4) None of these

71. Which of the following is not a forest product ?
- (1) Gum (2) Fodder
(3) Medicinal plants (4) Iron
72. Instrument used to hear heart beat is :
- (1) Thermometer (2) Hemometer
(3) Stethoscope (4) Sphygmomanometer
73. Transfer of pollen from anther to the stigma of another flower ?
- (1) Self-pollination (2) Cross-pollination
(3) Fertilization (4) None of these
74. Which one is an insectivorous plant ?
- (1) Cuscuta (2) Pitcher plant
(3) Yeast (4) Algae
75. _____ carry oxygen rich blood from heart to all part of body.
- (1) Veins (2) Arteries
(3) Vena Cava (4) Neurons
76. In anaerobic respiration in yeast :
- (1) Alcohol (Ethyl) is produced
(2) CO₂ is produced
(3) Lactic acid is produced
(4) Both (1) and (2)
77. Which of the following is/are saprophyte ?
- (1) Yeast (2) Mucor
(3) Mushroom (4) All of the above
78. Budding is shown by :
- (1) Yeast (2) Amoeba (3) Spirogyra (4) Human
79. Forest consist of :
- (1) Only plants (2) Only animals
(3) only decomposers (4) All of these
80. Lactic acid is formed :
- (1) In combustion
(2) In aerobic respiration
(3) In anaerobic respiration in muscle cell
(4) None of these

MATHEMATICS

81. Write the coefficient of x in the $-7xy$:
- (1) 0 (2) y (3) $-7y$ (4) $8x$
82. $\triangle ABC \cong \triangle PQR$, which of the following is true ?
- (1) $AB = QR$ (2) $BC = PR$ (3) $AC = PR$ (4) None of these
83. How much is $x^2 - 2xy + 3y^2$ less than $2x^2 - 3y^2 + xy$:
- (1) $x^2 - 6y^2 + 3xy$ (2) $x^2 + y^2 - 3xy$
(3) $x^2 + y^2 - 2xy$ (4) $2x^2 + 3y^2 - xy$
84. If $\triangle PQR \cong \triangle EFD$, which angle of $\triangle PQR$ equals $\angle E$?
- (1) $\angle P$ (2) $\angle Q$ (3) $\angle R$ (4) None of these
85. Which of the following triangle cannot be constructed?
- (1) 2 cm, 3 cm, 6 cm (2) 4 cm, 5 cm, 6 cm
(3) 3.5 cm, 3.5 cm, 3.5 cm (4) 7 cm, 7 cm, 7 cm
86. If $\frac{-5}{7} = \frac{x}{28}$, then the value of x :
- (1) -20 (2) 20 (3) 15 (4) -15
87. A Picture frame is 80 cm by 60 cm then its diagonal is :
- (1) 75 cm (2) 95 cm (3) 90 cm (4) 100 cm
88. What is the value of $18.08 \div 400$:
- (1) 0.0452 (2) 0.0552 (3) 0.0425 (4) 0.0525
89. Simplify $(5^{-1} \times 3^{-1})^{-1} \div 6^{-1}$:
- (1) 70 (2) 80 (3) 90 (4) 100
90. If a transversal cuts two parallel lines then which of the statement is true ?
- (1) Pairs of corresponding angles are equal
(2) Pairs of alternate angles are equal
(3) The sum of interior angles on the same side of the transversal is 180°
(4) All of the above
91. $\left[(-3)^2\right]^3$ is equal to
- (1) $(-3)^8$ (2) $(-3)^6$ (3) $(-3)^5$ (4) $(-3)^{23}$
92. Which of the following is not an equivalent rational number of $\frac{3}{4}$:
- (1) $\frac{-6}{-8}$ (2) $\frac{12}{16}$ (3) $\frac{-12}{16}$ (4) $\frac{6}{8}$

93. The sides of a triangle are 2 cm, 2 cm and 3 cm, then the triangle is.
- (1) Isosceles triangle (2) Isosceles Right triangle
- (3) equilateral triangle (4) None of these
94. $\frac{4}{5}, \frac{8}{10}, \frac{12}{15}$ are examples of :
- (1) Improper fractions (2) Equivalent fractions
- (3) Like fractions (4) None of these
95. Solve for x : $3(x - 1) = 2x - 11$.
- (1) -8 (2) 8 (3) -10 (4) 10
96. The simplest form of $-\frac{48}{60}$ is
- (1) $\frac{48}{60}$ (2) $-\frac{60}{48}$ (3) $-\frac{4}{5}$ (4) $\frac{-4}{-5}$
97. Add $3x + 2y$ and $x + y$:
- (1) $4x + 3y$ (2) $4x + 2y$ (3) $3x + 3y$ (4) $3x + 2y$
98. Solve the equation : $\frac{x}{2} = \frac{x}{3} + 1$:
- (1) 3 (2) 10 (3) 6 (4) 9
99. Determine the value of y:
- 
- (1) 12 (2) 15 (3) 10 (4) 20
100. The angles in a linear pair are also :
- (1) Corresponding angles (2) Complementary angles
- (3) Supplementary angles (4) None of these
101. $\frac{3}{15}, \frac{13}{15}, \frac{23}{15}$ are examples of :
- (1) Proper fractions (2) Equivalent fractions
- (3) Like fractions (4) Unlike fractions
102. Solve the equation : $3(x - 3) = 5(2x + 1)$:
- (1) -1 (2) -3 (3) -4 (4) -2

103. Algebraic expression of word expression "Subtract eight times of number b from ten times of number c " is

- (1) $2bc$ (2) $8b - 10c$ (3) $8c - 10b$ (4) $10c - 8b$

104. The reciprocal of $(-4)^3$ is :

- (1) $(-4)^{1/3}$ (2) $\left(\frac{1}{4}\right)^3$ (3) $\left(\frac{1}{-4}\right)^3$ (4) $\left(\frac{1}{4}\right)^{-3}$

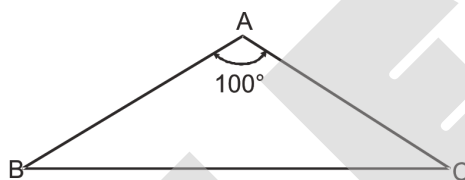
105. The rational number 0 is :

- (1) Always positive (2) Always negative
(3) Neither positive nor negative (4) None of these

106. How much does $a^2 - 3ab + 2b^2$ exceed $2a^2 - 7ab + 9b^2$:

- (1) $-a^2 + 4ab - 7b^2$ (2) $a^2 + ab - b^2$
(3) $a^2 - ab + 3b^2$ (4) $a^2 + 4ab + 7b^2$

107. In $\triangle ABC$, $\angle A = 100^\circ$. Find $\angle B + \angle C$.

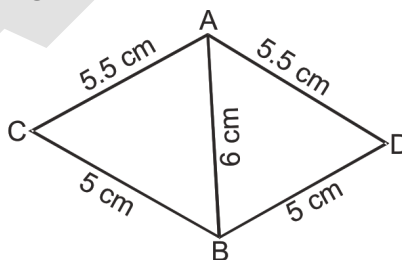


- (1) 40° (2) 60°
(3) 80° (4) None of these

108. $\frac{3^0 + 2^0 + 1^1}{5^2 \div 5}$ is equal to

- (1) 0 (2) $\frac{3}{125}$ (3) $\frac{3}{5}$ (4) 15

109. In the following figure, the lengths of the sides are indicated along side. By applying SSS condition, determine which are congruent.



- (1) $\triangle ABC \cong \triangle BAD$ (2) $\triangle BAC \cong \triangle BDA$
(3) $\triangle ABC \cong \triangle BDA$ (4) $\triangle ABC \cong \triangle ABD$

110. Simplify $8\frac{1}{2} - 3\frac{5}{8}$:

- (1) $\frac{37}{8}$ (2) $4\frac{8}{7}$ (3) $4\frac{7}{8}$ (4) $\frac{49}{8}$

111. Add : $7a^2bc$, $-3abc^2$ & $3a^2bc$.

- (1) $10a^2bc - 3abc^2$ (2) $7a^2bc$
 (3) $7a^2bc - 3abc^2$ (4) None of these

112. A triangle can be constructed by taking two of its angles as :

- (1) $110^\circ, 40^\circ$ (2) $70^\circ, 115^\circ$ (3) $135^\circ, 45^\circ$ (4) $90^\circ, 90^\circ$

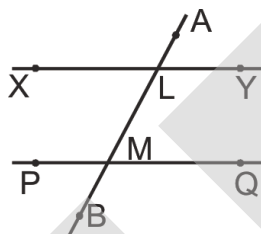
113. Find $\frac{2}{5}$ of a century ?

- (1) 60 (2) 40 (3) 80 (4) 100

114. Fill in the blanks : $\frac{7}{13} = \frac{35}{\quad} = \frac{63}{\quad}$:

- (1) -65, 117 (2) 65, 117 (3) -65, -117 (4) 65, -117

115. In figure $XY \parallel PQ$ and $\angle ALX = (2x-15)^\circ$, $\angle LMP = (x+40)^\circ$ find x :



- (1) 60° (2) 40° (3) 55° (4) 65°

116. Simplify $(6^{-1} - 8^{-1})^{-1} + (2^{-1} - 3^{-1})^{-1}$:

- (1) 29 (2) 30 (3) 31 (4) 32

117. Rational number $\frac{-247}{-228}$ in the simplest form is :

- (1) $\frac{247}{228}$ (2) $\frac{13}{12}$
 (3) $\frac{17}{15}$ (4) None of these

118. The distance between the two parallel lines is always _____ everywhere.

- (1) Same (2) Different
 (3) Can't say anything (4) None of these

119. The rational number $\frac{27}{250}$ as decimals is :

- (1) 0.107 (2) 0.11 (3) 0.109 (4) 0.108

120. Which of the following is true :

- (1) Every rational number is an integer (2) Every fraction is a rational number
 (3) Every fraction is an integer (4) Every rational number is a fraction

ASAT : CLASS-VIII SAMPLE TEST PAPER

ANSWER KEY

Q.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
A.	1	4	3	4	4	2	4	2	3	4	4	4	3	2	3	4	3	2	4	2
Q.	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
A.	1	3	1	3	4	2	2	4	4	1	4	3	4	1	3	3	3	3	2	2
Q.	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60
A.	2	2	4	3	2	3	3	2	2	3	2	1	4	4	2	1	4	2	2	1
Q.	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80
A.	4	4	1	2	2	2	3	3	3	3	4	3	2	2	2	4	4	1	4	3
Q.	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
A.	3	3	1	1	1	1	4	1	3	4	2	3	1	2	1	3	1	3	2	3
Q.	101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120
A.	3	4	4	3	3	1	3	3	4	3	1	1	2	2	3	2	2	1	4	2