



The PathShala

MOCK Test (Class 7th Going to 8th)

Time : 90:00 Min

Beware Of Negative Marking

Max. Marks : 400

Sample Paper

Test Syllabus

- MAT : Series Completion, Inserting Missing Character, Blood Relation, Alphabet Test, Arithmetic Operation, Emboldened Figure
- Physics : Force and Pressure, Friction
- Chemistry : Synthetic Fibers and Plastics, Metals and Non-metals
- Mathematics : Rational Numbers, Linear Equation in one Variable, Understanding Quadrilaterals
- Biology : Crop Production and Management, Microorganisms
- Social Science : How, when & where, From trade to territory, Indian Constitution, Understanding Secularism, Resources, Land, Soil, Water, Natural Vegetation & Wildlife Resources

INSTRUCTIONS

- Fill up the particulars of Your name, Registration No, Name of School, Mobile No and Test Date etc.
- This Question paper consists of three sections. Section A, Section B and Section C.

Section	Subject	Question	Marking Schemes of each correct answer.	
			Correct Answer	Wrong Answer
Section A	MAT	Q 01 to Q 40	+4	-1
Section B	Physics	Q 41 to Q 50	+4	-1
Section C	Chemistry	Q 51 to Q 60	+4	-1
Section D	Mathematics	Q 61 to Q 75	+4	-1
Section E	Biology	Q 76 to Q 85	+4	-1
Section F	Social Science	Q 86 to Q 100	+4	-1

Candidate ID :

Name of the Student :

Name of the School in which you study :

Student Mobile No :Test Date

Invigilator Signature

Student Signature

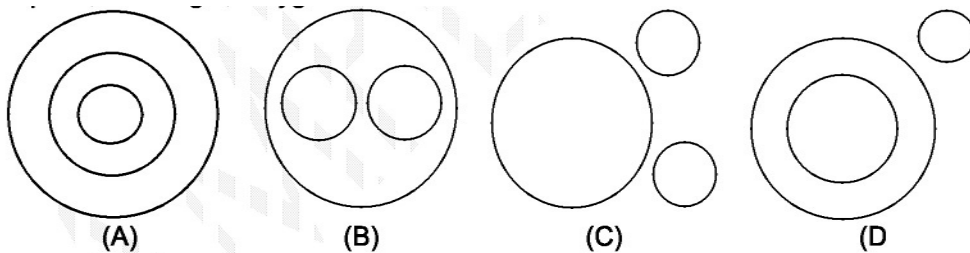
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Section A – MAT

(Q 01 to Q 40)

1. Kapil walks 15 km in East then he turns to his right and travels 10 km. Now in which direction he is from his starting point?
 (A) South (B) South East
 (C) West (D) East
2. 'Flower' is related to 'Petal' in the same way as 'Book' is related to ____
 (A) Pages (B) Content
 (C) Author (D) Library
3. If 'ZEBRA' is written as '2652181', then how can 'COBRA' be written?
 (A) 302181 (B) 3152181
 (C) 31822151 (D) 1182153
4. The question given below contains three elements. These three elements may or may not have some linkages. These group of the element may fit into one of the diagrams at (A), (B), (C) & (D). You have to indicate group of elements in this question fit into which of the diagrams given below. The letter indicating the diagram is the answer.
 Square, Rectangle, Polygon



5. A, B, C, D and E are five friends. A is shorter than B but taller than E. C is the tallest. D is shorter than B and taller than A. Who has two persons taller and two persons shorter than him?
 (A) A (B) B
 (C) C (D) D
6. In a row of boys, Mr. Chopra is 18th from the right and Shekhar is 18th from the left. If both of them exchange their positions, Shekhar becomes 25th from the left. How many boys are there in the row?
 (A) 40 (B) 41
 (C) 42 (D) 35
7. If pen is called pencil, pencil is called scale, scale is called bag and bag is called book, which is used to carry the books?
 (A) Scale (B) Pen
 (C) Book (D) Bag
8. If POLITICS is coded as OPILITSC, then ARTICLES will be coded as :
 (A) PAITLCES (B) RAITLCSE
 (C) NNUHPM (D) NNVHPN
9. Arrange the given words in the order they occur in dictionary.
 1. SIGN 2. SOLID
 3. SCENE 4. SIMPLE
 (A) 3, 1, 2, 4 (B) 3, 1, 4, 2
 (C) 3, 4, 1, 2 (D) 3, 4, 2, 1

10. If E = 5 & SAFE = 31, then PINK = ?
 (A) 41 (B) 40
 (C) 50 (D) 65

Directions (Questions 11 – 12): Find the missing terms:

11. 1, 4, 5, 8, 9, ___
 (A) 11 (B) 13
 (C) 12 (D) 10
12. 100, 90, 81, 73, ?
 (A) 66 (B) 64
 (C) 62 (D) 69
13. If in a certain code 'DINESH' is written as 'HSENIÐ', then how will 'MIRACLE' be written in the same code?
 (A) ELACRIM (B) ACLERIM
 (C) ELCARIM (D) CLEARIM

Directions (Question 14 - 15): In the following questions, there is some relationship between the two terms to the left of :: and the same relationship holds between the terms to its right. Also, in each question, one of the four terms is missing. Find out that term.

14. a : One :: f : ?
 (A) Property (B) Fail (C) E (D) Six
15. Psychology : Mind :: Ornithology?
 (A) Sanskrit (B) Coin
 (C) Mammal (D) Bird
16. Complete the following series. 12, 14, 15,
 16, 18, 20, ___
 (A) 22 (B) 25
 (C) 21 (D) 23
17. In the given question, there is some relationship between the two terms to the left of :: and the same relationship holds between the terms to its right. Also, in this question, one of the four terms is missing. Find out this term.
 BDEG : DFGI :: HKMO : ___
 (A) ILNP (B) JMOP
 (C) JMOQ (D) JNOQ
18. A student went to a class at quarter to ten. After 15 minutes his professor came who is late to the class by 25 minutes. At what time should the class start?
 (A) 9:25 (B) 9:35
 (C) 9:40 (D) 9:45
19. In a certain code language '+' means '-', '-' means 'x', 'x' means '+', '÷' means 'x'. Answer the following questions using the data.
 $14 \times 2 - 6 + 10 + 4 \times 2$
 (A) 30 (B) 40
 (C) 1 (D) 25
20. What is the next letter in the series? B, D, G, K, P, ___
 (A) S (B) V
 (C) W (D) X

21. Find the next number in the series given below: 3, 3, 6, 18, 72, 360, ____
 (A) 2160 (B) 2430
 (C) 1880 (D) 2040
22. Find the odd one among the following.
 (A) Mercury (B) Moon
 (C) Jupiter (D) Saturn
23. If the English alphabet are divided into two equal halves – from A to M and N to Z, which letter in the later half would be corresponding to letter J?
 (A) Q (B) V
 (C) X (D) W
24. Find the next term in the series:
 1, 4, 9, 16, 25, 36, ?
 (A) 48 (B) 50
 (C) 49 (D) 64
25. Hira said, "This girl is the wife of the grandson of my mother". Who is Hira to this girl?
 (A) Father (B) Husband
 (C) Father in law (D) Grand father
26. In a certain code language, if the word 'SECTOR' is coded as 'CESROT' then how will you code the word 'OPPOSITION' ?
 (A) SOPPONOITI (B) NOITISOPPO
 (C) SOPOPNOITI (D) SOPPONOTIT

Directions (Questions 27 – 28): Read the following information to answer the given questions.

- (i) Mannu, Balu, Vipin, Nitish, Kuldeep and Vinay are sitting in a circle facing centre.
 (ii) Mannu is in between Balu and Kuldeep.
 (iii) Vipin is in between Nitish and Vinay.
 (iv) Kuldeep is to the immediate right of Nitish.

27. What is Vinay's position in relation to Kuldeep?
 (A) immediate left (B) second to the right
 (C) third to the right (D) second to the left
28. Who is between Kuldeep and Vipin?
 (A) Nitish (B) Balu
 (C) Mannu (D) Cannot be determined
29. 2, 12, 30, ?, 90, 132
 (A) 48 (B) 56
 (C) 63 (D) 72
30. 10, 100, 200, 310, ?
 (A) 400 (B) 410
 (C) 420 (D) 430
31. 0, 5, 2, 4, 5, 8, 12, 5, ?
 (A) 16 (B) 17
 (C) 16.5 (D) 18

32. 2, 15, 41, 80, ?
(A) 120 (B) 121
(C) 132 (D) 111
33. 109, 74, 46, 25, 11, ?
(A) 3 (B) 0
(C) 11 (D) 4
34. 96, 48, 24, 12, ?
(A) 6 (B) 4
(C) 2 (D) 5
35. D, H, L, P, ?
(A) S (B) U
(C) T (D) Z
36. AZ, BY, CX, DW, ?
(A) FE (B) FG
(C) EG (D) EV
37. 'Taka' is related to 'Bangladesh', similarly 'Pound sterling' is related with ?
(A) Russia (B) Pakistan
(C) England (UK) (D) Bhutan
38. 'Wicket' is related to 'Cricket', similarly 'Checkmate' is related to?
(A) Tennis (B) Football
(C) Chess (D) None of these
39. If Modi is brother of Savi, Savi is sister of Kavi and Kavi is father of Ravi, how Modi is related to Ravi?
(A) Uncle (B) Father
(C) Grandfather (D) Mother
40. 16, 36, 64, 100, ?
(A) 121 (B) 144
(C) 169 (D) 225

Section B – PHYSICS

(Q 41 to Q 50)

41. Which of the following is used as SI (scientific) unit of temperature? 1ab
- (A) °C (Degree Celsius) (B) °F (Degree Fahrenheit)
(C) K (Kelvin) (D) None of these
42. The instrument used to measure wind speed is called
- (A) Anemometer (B) Barometer
(C) Ammeter (D) Thermometer 1w
43. Change 37°C into °F
- (A) 98.6°F (B) 42.7°F
(C) 108°F (D) 86.6°F
44. Change 54 km/h into m/s
- (A) 15 m/s (B) 27 m/s
(C) 9 m/s (D) 20 m/s
45. Which of the following is used as SI unit of velocity?
- (A) ms^{-1} (B) cms^{-1}
(C) Foot/sec. (D) kmh^{-1}
46. $27^\circ\text{C} = \underline{\hspace{2cm}}$ K (fill the correct option in the blank).
- (A) 273 (B) 300
(C) 310 (D) 293
47. The constant temperature at which a solid substance changes into liquid state is called
- (A) melting point of substance (B) boiling point of substance
(C) saturation temperature (D) evaporation temperature
48. Air moves from
- (A) high pressure to low pressure (B) low pressure to high pressure
(C) high pressure to high pressure (D) low pressure to low pressure
49. How much heat is released when 30 g of water at 96°C cools to 25°C ? The specific heat of water is $1 \text{ cal g}^{-1}\text{C}^{-1}$.
- (A) 2130 cal (B) 1065 cal
(C) 213 cal (D) 106 cal
50. A car moves from A to B with speed 20 km/h and back to A with speed 30 km/h. The average speed during the whole journey is
- (A) 25 km/h (B) 24 km/h
(C) 50 km/h (D) 35 km/h

Section C – CHEMISTRY

(Q 51 to Q 60)

51. The word acid was derived from
(A) sour (B) acēre
(C) acrid (D) acetone
52. What is the nature of common salt solution?
(A) Acidic (B) Basic
(C) Neutral (D) Difficult to identify
53. Which one of the following is acidic in nature?
(A) Lime water (B) Soap
(C) Coffee (D) Antacid
54. Which portion of sheep provides wool? 1W
(A) Skin (B) Fleece
(C) Muscles (D) Cocoon
55. What is the nature of wool providing animals?
(A) Herbivores (B) Carnivores
(C) Omnivores (D) Either A or B
56. Which category of microorganism causes sorter's disease in wool industry?
(A) Protozoa (B) Fungus
(C) Virus (D) Bacterium
57. Dissolving sugar in water is
(A) a physical change (B) a chemical change
(C) a permanent change (D) Both (B) and (C)
58. The colour of light produced on burning sulphur is
(A) blue (B) white
(C) yellow (D) green
59. Lime water turns milky on passing carbon dioxide due to formation of
(A) calcium oxide (B) calcium hydroxide
(C) calcium carbonate (D) calcium bicarbonate
60. Which metal is used in galvanization?
(A) Copper (B) Lead
(C) Calcium (D) Zinc

Section D – MATHEMATICS

(Q 61 to Q 75)

61. Find the reciprocal of $2\frac{1}{3}$ is
- (A) $\frac{7}{3}$ (B) $-\frac{7}{3}$
(C) $-\frac{3}{7}$ (D) $\frac{3}{7}$
62. The mean of 10 observation is 25. If one observation, namely 25, is deleted, the new mean is
- (A) 25 (B) 20
(C) 28 (D) 22
63. Find the value of $(-1) \times (-1) \times (-1) \dots \dots 1001$ times
- (A) 1 (B) 0
(C) -1 (D) none of these
64. If each score is increased by 5 then which of the following statement is true?
- (A) Mean remains the same (B) Mean increases by 5
(C) Mean decreases by 5 (D) None of these
65. Milk is sold at Rs. $16\frac{3}{4}$ per litre. Find the cost of $6\frac{2}{5}$ litres of milk.
- (A) Rs. $107\frac{1}{5}$ (B) Rs. $102\frac{1}{5}$
(C) Rs. $103\frac{1}{5}$ (D) None of these
66. The denominator of a fraction exceeds the numerator by 5. If 3 be added to both, the fraction becomes $\frac{3}{4}$. Find the fraction.
- (A) $\frac{12}{17}$ (B) $\frac{12}{15}$
(C) $\frac{12}{13}$ (D) $\frac{12}{11}$
67. Find the sum of first 10 natural numbers.
- (A) 56 (B) 55
(C) 54 (D) 53
68. In $\triangle ABC$, $BC = 3.8\text{cm}$, $\angle B = 40^\circ$ and $\angle C = 55^\circ$. In $\triangle PQR$, $QR = 3.8\text{cm}$, $\angle Q = 40^\circ$ and $\angle R = 55^\circ$. By which congruency they are congruent?
- (A) ASA (B) SAS
(C) SAS (D) RHS

69. The equation for the statement: 'half of number added to 10 to 15' is:
- (A) $\frac{x}{2} + 10 = 5$ (B) $\frac{x}{2} + 10 = 15$
(C) $\frac{x}{2} + 15 = 10$ (D) $\frac{x}{2} = 10 + 15$
70. If thrice of A's age 6 years ago be subtracted from twice his present age, the result would be equal to his present age. Find A's present age
- (A) 9 (B) 10
(C) 11 (D) 12
71. The difference between the greatest number and the least number of $\frac{5}{9}, \frac{1}{9}, \frac{11}{9}$ is
- (A) $\frac{2}{9}$ (B) $\frac{4}{9}$
(C) $\frac{10}{9}$ (D) $\frac{2}{3}$
72. Find the perimeter of a rectangle whose one side measure 20 m and the diagonal 29 m is
- (A) 82 m (B) 78 m
(C) 98 m (D) 88 m
73. In a triangle, the second angle is 5° more than the first angle and the third angle is three times of the first angle. Find the smallest angle at triangle.
- (A) 25° (B) 35°
(C) 45° (D) 60°
74. If $2x - 3 = \frac{3}{10}(5x - 12)$, then what is the value of x?
- (A) $-\frac{6}{5}$ (B) $\frac{4}{5}$
(C) $\frac{8}{9}$ (D) $-\frac{16}{9}$
75. If one angle of a triangle is equal to the sum of the other two angles, the triangle must be:
- (A) Scalene (B) Right angled
(C) Obtuse angles (D) Acute angled

Section E – BIOLOGY

(Q 76 to Q 85)

76. The largest gland in human body is
(A) Liver (B) Salivary gland
(C) Pancreas (D) Thyroid
77. Intestinal villi are mainly concerned with
(A) Ultrafiltration (B) Secretion
(C) Assimilation (D) Absorption
78. Long inactivity and metabolic depression of animals during summer is known, as:
(A) Aestivation (B) Migration
(C) Evolution (D) Hibernation
79. In photosynthesis, light energy is used for activation of
(A) chlorophyll molecule (B) ATP
(C) CO₂ (D) All of these
80. Birds are adapted to fly because of _____.
(A) Streamlined body (B) Light bones
(C) Feathers and wings (D) All of these
81. In earthworm, the exchange of gases occurs through _____.
(A) Lungs (B) Gills
(C) Moist skin (D) Tracheae
82. Human beings have 3 pairs of salivary glands that secrete saliva containing enzyme ____
(A) Pepsin (B) Rennin
(C) Ptyalin (D) Lipase
83. Indicate the type of climate of Kerala & North-East India.
(A) Hot & dry (B) Hot & wet
(C) Cool & wet (D) Cool & dry
84. Grasshopper have several openings called spiracles on lateral sides of their bodies which lead to air tubes called
(A) Tracheae (B) Oesophagus
(C) Lungs (D) Gills
85. During expiration or exhalation
(A) Lung's volume decreases, diaphragm becomes dome shape
(B) Lung's volume increases, diaphragm flattens
(C) Lung's volume decreases, diaphragm flattens
(D) None of these

Section B – SOCIAL SCIENCE*(Q 86 to Q 100)*

86. Which new dynasty developed in eastern part of the country?
(a) Cholas
(b) Palas
(c) Chahamanas
(d) Rashtrakutas
87. What was the other name of the great lord of a 'circle' or region?
(a) Samantas
(b) Subordinates
(c) Maha-mandaleshvara
(d) King
88. Who were expected to bring gifts for their kings in 17th century?
(a) Samantas
(b) Overlords
(c) Maha-samantas
(d) Maha-mandaleshvara
89. When were Samantas declared Maha-samantas?
(a) When they bring gifts for their kings
(b) When they provide kings with military support
(c) When they gain power and wealth
(d) None of the above
90. What is the literal meaning of hiranya-garbha?
(a) Rashtrakutas
(b) Dantidurga
(c) Golden womb
(d) Golden deer
91. From whom was the Revenue also collected?
(a) Traders
(b) Merchants
(c) Peasants
(d) Artisans
92. What was the use of money collected from taxes?
(a) To finance the kings' establishment
(b) Construction of temples and forts
(c) To fight wars
(d) All of these
93. The functionaries for collecting revenue were recruited from
(a) peasants
(b) artisans
(c) traders
(d) influential families

94. What does democracy mean?
(a) Equal right to vote
(b) Unequal right to vote
(c) Discrimination
(d) All of these
95. According to Universal Adult Franchise every adult has:
(a) No vote
(b) one vote
(c) multiple vote
(d) All of these
96. What is NOT the element of equality?
(a) Justice
(b) Religion
(c) Wealth
(d) Health
97. Whose autobiography is 'Joothan'?
(a) Omprakash Valmiki's
(b) Atal Bihari Vajpayee's
(c) Mahatma Gandhi's
(d) Pt. Jawaharlal Nehru's
98. Which one of the following is a basic life support system?
(a) Music system
(b) Environment
(c) Transportation
(d) None of these
99. Which one of the following is created by nature?
(a) Cars, scooters and buses
(b) Mountains, rivers and trees
(c) Roads, books, pen and copies
(d) All of these
100. The domain of water is referred to
(a) hydrosphere
(b) lithosphere
(c) atmosphere
(d) biosphere