



The PathShala

MOCK Test (Class 8th Going to 9th)

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 35	+4	-1
Section B	Physics	Q 36 to Q 45	+4	-1
Section C	Chemistry	Q 46 to Q 55	+4	-1
Section D	Mathematics	Q 56 to Q 70	+4	-1
Section E	Biology	Q 71 to Q 80	+4	-1
Section F	Social Science	Q 81 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

Section A – MAT

(Q 01 to Q 35)

Directions (Q. No 1 – 10) : Complete the series.

1. 7, 12, 19, 31, 50, ?
(A) 75 (B) 78 (C) 81 (D) 92
2. 8, 12, 30, 105, ?
(A) 472.5 (B) 372.5 (C) 452.5 (D) 6.00
3. 0, 7, 26, 63, 124, ?
(A) 200 (B) 210 (C) 215 (D) 225
4. 6, 42, 215, ?, 2592
(A) 464 (B) 624 (C) 720 (D) 864
5. 15, 23, 38, 62, 97, ?
(A) 135 (B) 145 (C) 148 (D) 160
6. DMJ, KSO, RYT, ?
(A) YEF (B) YEY (C) ZEY (D) YEX
7. TRP, OMK, JHF, ?
(A) ECA (B) EBC (C) ECB (D) FCA
8. Ca_d_abd cab_c_bd
(A) bcca (B) bcdd (C) bcda (D) cada
9. ba_cd_aac_baa_d
(A) abda (B) abdc (C) aabc (D) abbc
10. zzyzyxzyxwzyxwvzyxwv?
(A) R (B) S (C) T (D) U

Directions (Q. No 11 – 15) : What will come in the place of question mark(?).

11.

25	17	41
32	83	11
26	?	31

- (A) 26 (B) 25 (C) 34 (D) 38

12.

2	24	48
3	9	27
4	?	40

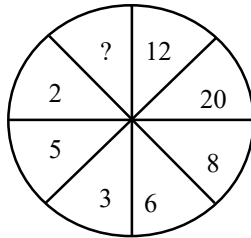
- (A) 10 (B) 16 (C) 12 (D) 32

13.

81	36	25
49	100	36
9	64	16
139	200	?

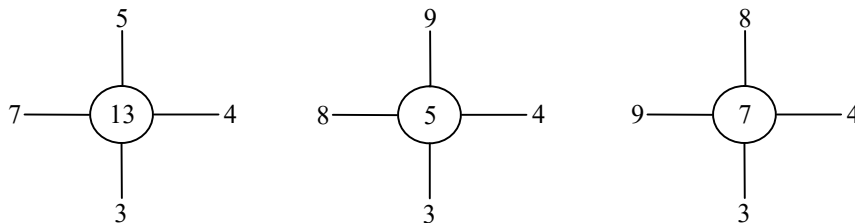
- (A) 107 (B) 77 (C) 27 (D) 50

14.



- (A) 24 (B) 6 (C) 18 (D) 10

15.



- (A) 12 (B) 15 (C) 18 (D) 14

16. If A is a brother of B, C is the sister of A, D is the brother of E, E is the daughter of B, F is the father of C, who is the uncle of D?
 (A) A (B) C (C) B (D) None of these
17. A said to B that B's mother was the mother – in – law of A's mother. How is A's mother related to B's mother?
 (A) Daughter – in – law (B) Mother – in – law (C) Sister (D) Aunt
18. Ramesh says that "Rekha is the sister – in law of the only daughter of my mother – in – law's husband." How is Rekha related to Ramesh?
 (A) Sister – in – law (B) Mother (C) Daughter – in – law (D) Daughter
19. A is the brother of B, C is married to D. If C is the nephew of B, how is A related to D?
 (A) father – in – law (B) mother – in – law (C) son – in – law (D) daughter – in – law
20. D is brother of K, M is sister of K. T is father of R, who is brother of M, F is mother of K. At least how many sons does T and F have?
 (A) Two (B) Three (C) Four (D) Data inadequate

Directions (Q. No 21 – 25) : Answer these questions referring to the symbol – letter – number sequence given below:

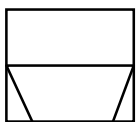
X q – L J K S D d F 4 @ z t A E m 8 + P M I * Z D O 7

21. If the twelve characters starting from @ are reversed then what will be the 13th character to the left of 7th character from the right?
 (A) m (B) E (C) S (D) D

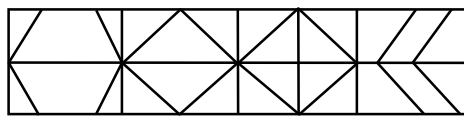
22. What will come in place of the question mark(?) in the following character series?
 q X – dL @ ?
 (A) zJ - (B) m8 + (C) zJ+ (D) tK+
23. Find the odd man out,
 (A) q- (B) Xq (C) -K (D) J4
24. If the given sequence is reversed, what will be the 6th character to the left of 5th to the right of 10th character from the right?
 (A) @ (B) z (C) A (D) None of these
25. Which of the following characters is midway between the 7th character from the right and the 19th character from the right?
 (A) m (B) + (C) A (D) Can't be determined
26. If '+' means 'minus', '-' means 'multiply', '÷' means 'plus' and 'x' means 'x' means 'divide', then
 $10 \times 5 \div 3 - 2 + 3 = ?$
 (A) 5 (B) $\frac{53}{3}$ (C) 21 (D) 36
27. If A means '+', B means '-', C means 'x' and D means ÷, then
 $18 C 14 A 6 B 16 D 4 = ?$
 (A) 254 (B) 238 (C) 188 (D) 258
28. If '+' means '-', '÷' means '+', '-' means 'x' 'x' means '÷', then which of the following equation is correct?
 (A) $40 - 10 + 10 \times 5 = 92$ (B) $265 + 11 - 2 \times 14 = 22$
 (C) $66 \times 3 - 11 + 12 = 230$ (D) $2 - 14 \times 4 \div 11 = 16$
29. If A = '+', B = '-', C = 'x' and D = '÷', then $5 C 5 D 5 A 5 B 5 = ?$
 (A) 0 (B) 5 (C) 10 (D) 15
30. If A = '+', B = '-', C = 'x' and D = '÷', then which of the following equations is correct?
 (A) $8 A 8 B 8 C 8 = -48$ (B) $3 A 3 B 3 C 3 A 3 D 3 = 41$
 (C) $9 C 9 B 9 D A 9 = 17$ (D) $8 B 6 D A 4 C 3 = 15$

Directions (Q. No 31 – 35) : In each of the following questions, find the answer figure in which question figure is embedded.

31. Question Figure

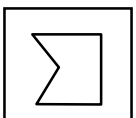


Answer Figures

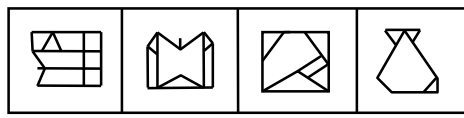


(A) (B) (C) (D)

32. Question Figure

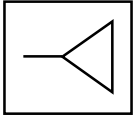


Answer Figures

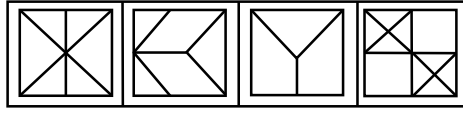


(A) (B) (C) (D)

33. Question Figure

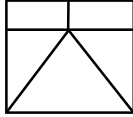


Answer Figures

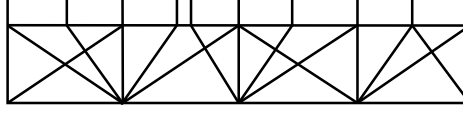


(A) (B) (C) (D)

34. Question Figure

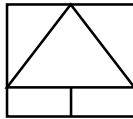


Answer Figures

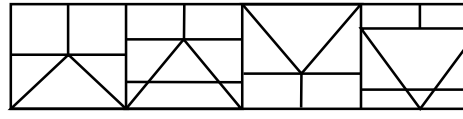


(A) (B) (C) (D)

35. Question Figure



Answer Figures



(A) (B) (C) (D)

Section B – PHYSICS**(Q 36 to Q 45)**

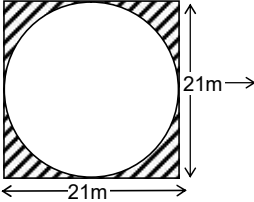
36. An unbalanced force acts on a body. The body
(A) must remain at rest (B) must move with uniform velocity
(C) must be accelerated (D) must move along a circle
37. If a body is not accelerated
(A) no force acts on it (B) no unbalanced force acts on it
(C) the resultant force is not zero (D) a single force acts on it
38. If no force acts on a body, it will
(A) get deformed (B) move with increasing speed
(C) either remain at rest or move in a straight line (D) break
39. Magnetic force, electrostatic force and gravitational forces are types of forces.
(A) contact (B) Non-contact (C) both 'a' and 'b' (D) None of these
40. Which of the following is variable quantity
(A) mass (B) weight
(C) universal gravitational constant, G (D) All of these
41. Which of the following has unit as Newton (N) :
(A) mass only (B) weight only (C) force only (D) both 'b' and 'c'
42. A body is sliding on a rough horizontal surface. Then the forces present are :
(A) friction (B) Normal reaction (C) gravitational (D) All of these
43. Friction force acts
(A) parallel to motion (B) perpendicular to motion
(C) opposite to the direction of relative motion (D) at angle of 45° with the direction of motion
44. Friction is a/an
(A) Self-adjusting force (B) Necessary evil
(C) Important force in daily life (D) All the above
45. Unit of relative density is
(A) kg/m^3 (B) gm/cm^3 (C) kg/m^2 (D) unit less

Section C – CHEMISTRY**(Q 46 to Q 55)**

46. Petroleum is refined by
(A) Simple (B) Fractional distillation
(C) Destructive distillation (D) None of these
47. Which of the following reacts violently with steam?
(A) Iron (B) Zinc
(C) Magnesium (D) None of these
48. Magnesium oxide is:
(A) Basic oxide (B) Acidic oxide
(C) Neutral oxide (D) None of these
49. Which is known as artificial silk?
(A) Rayon (B) Nylon
(C) Dacron (D) Polyester
50. CNG stands for:
(A) Conventional natural gas (B) Coal and natural gas
(C) Compressed natural gas (D) Commercial natural gas
51. Which of the following plastic is a thermosetting plastic?
(A) Polystyrene (B) Polyethylene
(C) PVC (D) Bakelite
52. When iron nail is placed in copper sulphate solution, the bluish colour of copper sulphate turns ____
(A) Brownish (B) Yellowish
(C) Greenish (D) Colourless
53. Which is not used as a fire extinguisher?
(A) Water (B) Carbon dioxide
(C) Oxygen (D) All of the above
54. Producer gas contains
(A) Nitrogen and carbon monoxide (B) Hydrogen and nitrogen
(C) Nitrogen and carbon dioxide (D) None of these
55. Incomplete combustion of fuels gives:
(A) CO₂ gas (B) CO gas
(C) CO + H₂ (D) None of these

Section D – MATHS

(Q 56 to Q 70)

56. The area of a right angled isosceles triangle whose hypotenuse is $\sqrt{2}$ mt is
 (A) 1 mt^2 (B) 0.5 mt^2
 (C) 2 mt^2 (D) $\frac{1}{\sqrt{2}} \text{ mt}^2$
57. The area of the shaded region in the below figure is
 (A) 94.5 mt^2 (B) 49.5 mt^2
 (C) 441 mt^2 (D) 210 mt^2
- 
58. The largest number of five digits which can be divided by 16, 18, 24 exactly is
 (A) 99932 (B) 99936
 (C) 98934 (D) 91938
59. The product of two numbers is 16184 and their L.C.M. is 952. The H.C.F. is
 (A) 12 (B) 17
 (C) 22 (D) 27
60. A fraction whose numerator is greater than its denominator is called
 (A) an improper fraction (B) a proper fraction
 (C) mixed fraction (D) natural fraction
61. The number of significant digits in 0.46×0.018 is
 (A) 2 (B) 3
 (C) 4 (D) 5
62. The cube root of 2744 is
 (A) 14 (B) 16
 (C) 24 (D) 26
63. If the compounded ratio of $(x : 2)$ and $(2 : 3)$ is $8 : 1$, then $x =$
 (A) 14 (B) 24
 (C) 34 (D) 44
64. The third proportional to 2 and 4 is
 (A) 8 (B) 2
 (C) $\frac{1}{2}$ (D) $\frac{1}{4}$
65. If 36 men can do a piece of work in 25 days, 15 men will take
 (A) 30 days (B) 60 days
 (C) 90 days (D) 15 days
66. 36% of the students in a school are girls. If the number of boys is 1056, the total strength of the school is
 (A) 1050 (B) 1350
 (C) 1650 (D) 1950

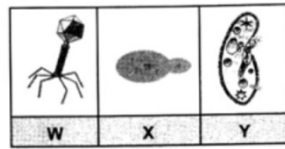
67. Ahmed purchased an old scooter for Rs.14625 and spent Rs.3225 on its repairs. Then, he sold it for Rs.16422. The gain/loss percent is
(A) loss = 8% (B) gain = 8%
(C) loss = 4% (D) gain = 4%
68. If C.P. of a book is Rs.175 and the loss = 12%, then the S.P is equal to
(A) Rs.154 (B) Rs.196
(C) Rs.180 (D) Rs.144
69. The sum which amounts to Rs.7234.50 for a period of 2 years compounded annually at the rate of 5% p.a. during the first year and 6% p.a. during the second year is
(A) Rs.7500 (B) Rs.5500
(C) Rs.6000 (D) Rs.6500
70. If the objects move in the same direction at 18 kmph and 54 kmph, then their relative speed is
(A) 72 kmph (B) 18 kmph
(C) 10 m/sec (D) 15 m/sec

Section E – BIOLOGY

(Q 71 to Q 80)

71. Which of the following options is/are true about the diseases, microorganisms which cause them and the symptoms of the diseases?
(A) Malaria, Protozoan, Fever and Chills (B) Hepatitis B, Virus, Swollen liver
(C) Cholera, Virus, Vomiting, diarrhea (D) Both (A) and (B)
72. Poliomyelitis is responsible virus for polio. Who discovered polio vaccine?
(A) Louis Pasteur (B) Janas Salk
(C) Robert Koch (D) None of the above
73. Some plants have nitrogen-fixing bacteria in their root nodules. What are these bacteria called?
(A) Blue green algae (B) Nitrosomonas
(C) Azotobacter (D) Rhizobium
74. Consider the following statements about weeding and identify the incorrect one.
(A) Weeding is best done during tilling itself.
(B) Weeding is the process of growing weed.
(C) Weeding is the process of removal of weeds.
(D) Weeding is usually done
75. A Rhizobium (a Bacteria) which fixes atmospheric nitrogen are found in nodules growing in
(A) Roots of leguminous plants (B) Leaves of leguminous plants
(C) Stem of Leguminous plants (D) All of the above.
76. Which is pesticides?
(A) 2, 4-dichlorophenoxyacetic acid (B) Malathion
(C) Metolachlor (D) Chloroform
77. Seed drill is used for
(A) harvesting (B) cleaning the seed
(C) sowing (D) weeding
78. A Which of the following drug is an antipyretic?
(A) Insulin (B) Alcohol
(C) Streptomycin (D) Paracetamol
79. The rod shaped bacteria are called
(A) Bacillus (B) Coccus
(C) Vibrio (D) Spirillum

80. Identify W, X and Y



- | | | | | | | | |
|-----|-------|-----------|-----------|-----|--------|-----------|-----------|
| (A) | (W) | (X) | (Y) | (B) | (W) | (X) | (Y) |
| | Virus | Protozoan | Fungus | | Algae | Bacterium | Virus |
| (C) | (W) | (X) | (Y) | (D) | (W) | (X) | (Y) |
| | Virus | Fungus | Protozoan | | Fungus | Algae | Bacterium |

Section B – SOCIAL SCIENCE

(Q 81 to Q 100)

81. Who started the division of Indian history into three periods – Hindus, Muslim and British.
 (A) Vincent smith (B) James Stuart Mill
 (C) H.W vogsey (D) Warrin Hastings
82. When was battle of plassey fought:
 (A) 1756 (B) 1755
 (C) 1757 (D) 1758
83. Who introduced subsidiary alliance to achieve political aims in India
 (A) lord Clive (B) Lord Mountbatten
 (C) Lord Dalhousie (D) lord Wellesley
84. Who is known as Tiger of Mysore:
 (A) Haider Ali (B) Tipu Sultan
 (C) Baji Rao II (D) Nana Sahib
85. Who is known as father of Indian archaeology:
 (A) Sir Alexander Cunningham (B) John Marshall
 (C) James prince (D) R D banerjee
86. Who led the Ulgulan?
 (A) Jatra oraon (B) Birsa Munda
 (C) Tribal Chiefs (D) All of these
87. Who wrote the play Neel Darpan
 (A) Bamkim Chandra Chatterjee (B) Rabindra nath tagore
 (C) Dinabandhu Mitra (D) Bishnu Charan Biswas
88. Exclusive right over any idea or invention
 (A) Patent (B) Monopoly
 (C) Resource (D) manufacturing

89. Who said “ there is enough for everybody’s need but not for anybody’s greet
(A) Medha Patkar (B) Mahatma Gandhi
(C) Lala Lajpat Rai (D) Sunder Lal Bahuguna
90. Development that meets the need of present without compromising the ability of future generation to meet their own need.
(A) Economic development (B) Social development
(C) Human development (D) Sustainable development
91. Soil found in the slopes of western ghats
(A) Black soil (B) Red soil
(C) Mountain soil (D) Laetrile soil
92. Soil also known as Regur
(A) Allurial oil (B) sub soil
(C) Red soil (D) Black soil
93. Which is the first multipurpose project of India:
(A) Bharna Nagal (B) Chambal project
(C) Nagarjuna Sagar project (D) Damodar valley corporation
94. CA written document that contains political rules
(A) constitution (B) parliament
(C) polity (D) Assembly
95. Who is known as father of Indian constitution:
(A) Jawaharlal Nehru (B) Dr. b R Ambedkar
(C) Rajendra Prasad (D) Lala lajpat Rai
96. Which article of Indian constitution bans untouchability.
(A) Article 15 (B) Article 14
(C) Article 16 (D) Article 17
97. Which rights have been called as conscience of Indian constitution:
(A) human rights (B) Cultural rights
(C) Fundamental rights (D) legal rights
98. Khonds are tribes of
(A) Andhra Pradesh (B) Odisha
(C) Jharkhand (D) Madhya Pradesh
99. Society based on equal rights for all
(A) Egalitarian society (B) Politically developed society
(C) Developed society (D) Peaceful society
100. World water resource day is celebrated
(A) March 21 (B) March 22
(C) March 23 (D) March 24