

Name

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FOUNDATION MOCK TEST

Batch..... Roll No.

Date : 18-08-2024

25FTP/P

PHYSICS+CHEMISTRY+BIOLOGY+MATHS

Class IX(VIII Studying)

PHYSICS

1. What is force
A) Pull B) Push C) Push and pull D) None of these
2. The strength of force is expressed by
A) Weight B) Mass C) Magnitude D) Longitudinal force
3. Beam of light striking the reflecting surface is called
A) Reflecting ray B) Incident ray C) Refracted ray D) Normal ray
4. Band of seven colours is called
A) VIBGYOR B) Spectrum C) Dispersion D) Reflection
5. In case of reflection of light, the angle of incidence (i) and the angle of reflection (r) are related as
A) $i = r$ B) $i < r$ C) $i > r$ D) No definite relation
6. Name the type of mirror used as a back view mirror
A) Plane mirror B) Concave mirror C) Convex mirror D) Any of these
7. The splitting of white light into its seven constituent colours is called
A) Refraction B) Dispersion C) Deviation D) Reflection
8. An electric current can produce
A) Heating effect B) Chemical effect C) Magnetic effect D) All of these
9. Friction is a.....
A) Contact force B) Non contact force C) Magnetic force D) None of these
10. Fluids are.....
A) Gases B) Liquids C) Gases and liquids both D) None of these
11. Friction is a/an.....
A) Evil B) Foe C) Both A and B D) None
12. Rolling friction is smaller than
A) Sliding friction B) Static friction C) Fluid friction D) All of the above
13. The shape of the airplane is like a
A) Bird B) Car C) Dog D) All
14. Force acting on an object may change
A) Direction B) Shape C) Speed D) All of above

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15. Leaves or fruits fall on the ground due to
A) Leaves or fruits fall on the ground due to
A) Magnetic force B) Gravitational force C) Electrostatic force D) Muscular force
16. The pressure which is exerted by air around us is known as
A) Force B) Atmospheric pressure
C) Muscular force D) Friction
17. Force acting per unit area is called
A) Non- contact force B) Contact forces
C) Force D) Pressure
18. The force exerted by the earth to pull the object towards itself is called
A) Electrostatic force B) Muscular force C) Gravitational force D) Contact force
19. Muscular force is also called..... force
A) Non contact B) Contact C) Gravitational D) Magnetic
20. Which of the following is a good conductors
A) Brick B) Steel C) Plastic D) Cotton
21. Flow of electron is called
A) Electrolyte B) Electroplating C) Electrodes D) Electric current
22. An electric lamp glows due to
A) Heating effect B) Magnetic effect C) Chemical effect D) Physical effect
23. Plastic wire is
A) An insulator B) A conductor C) Both a and b D) None of these
24. Poor conductors are
A) Plastics B) Clothes C) Wood D) All of these
25. Copper wire is a
A) Good conductor B) Poor conductor C) Both A and B D) None of these

CHEMISTRY

26. Which of the following is necessary for combustion to occur
A) Nitrogen B) Hydrogen C) Carbon dioxide D) Oxygen
27. In a Bunsen burner, which part of the flame is the hottest?
A) The blue part B) The yellow part C) The red part D) The outermost part
28. The flame of a candle in a closed room eventually goes out because:
A) The wax runs out B) The wick burns away
C) The oxygen in the room gets used up D) The room temperature decreases

29. Which type of coal has the highest carbon content?
- A) Peat B) Lignite C) Bituminous D) Anthracite
30. Which of the following is not an environmental consequences of using fossil fuels?
- A) Air pollution B) Global warming C) Soil erosion D) Acid rain
31. A state change from solid to liquid is called.....
- A) Solidification B) Liquefaction C) Condensation D) Vapourisation
32. Which process account for the spreading of the smell of fruits.
- A) Osmosis B) Distillation C) Diffusion D) Diffraction
33. Which method is used for separating butter from curd
- A) Centrifugation B) Distillation C) Chromatography D) Fractional distillation
34. For which separation chromatography first employed
- A) Separating smell of substances B) Separating mass of substances
C) Separating shape of substance D) Separating coloured substances
35. Which scientist discovered that when electricity is passed through water it splits into hydrogen and oxygen?
- A) Henry cavendish B) Sir Humphry Davy C) Newton D) Einstein
36. On what basis the element neptunium having that name
- A) Country B) Colour C) Scientist D) Planet
37. What is the symbol of bromine
- A) BR B) bR C) Br D) br
38. Which of the following is an example of polyatomic molecule?
- A) H_2 B) S_8 C) O_2 D) Cl_2
39. What are the constituent particles of sugar?
- A) Carbon,hydrogen, oxygen B) Carbon, oxygen
C) Hydrogen,Oxygen D) Mercury, oxygen, hydrogen
40. What is the chemical formula of sulphuric acid
- A) H_2SO_3 B) HSO_4 C) H_2SO_4 D) HSO_3
41. Write the balanced equation of the following
- A) $N_2 + H_2 \rightarrow 2NH_3$ B) $2N_2 + H_2 \rightarrow 3NH_3$ C) $N_2 + 3H_2 \rightarrow 2NH_3$ D) $3N_2 + 2H_2 \rightarrow 4NH_3$
42. Chemical reactions which liberate or absorb light energy are known as.....
- A) Electrochemical reaction B) Light reaction
C) Dark reaction D) Photo chemical reaction
43. When magnesium reacts with hydrochloric acid which gas is liberated?
- A) H_2 B) O_2 C) N_2 D) Cl_2

44. What are the constituents of brass
A) Zinc + lead B) Copper + lead C) Tin + lead D) Zinc + copper
45. For the fragrance of pineapple in food material which chemical substance is used
A) Tartrazine B) Erythrosine C) Allyl hexanoate D) Vanillin
46. Which of the following is an example of nature indicator
A) Turmeric B) Phenolphthalen C) Methyl orange D) Methyl red
47. Phenolphthalein shows which colour in acid
A) Pink B) Red C) Colourless D) Blue
48. is the freezing point of water
A) 100°C B) 0°C C) 200°C D) 150°C
49. What is the reason behind small insects can move randomly on the surface of water
A) Surface energy B) Osmosis C) Diffusion D) Surface tension
50. In which temperature water shows anomalous behaviour?
A) 3°C B) 4°C C) 5°C D) 1°C

BIOLOGY

51. What is x in the given sequence?
Ploughing → X → sowing seeds → manuring → irrigation
A) Drilling B) Levelling C) Broadcasting D) Transplanting
52. Drip irrigation is a method of micro irrigation is used because
A) There is a shortage of water resources B) It decreases the fertility of the soil
C) It increases soil erosion D) It reduces water holding capacity of the soil
53. How can nitrogen be replenished in soil naturally?
A) Using vermicompost B) By using weedicides
C) By crop rotation with a leguminous crop D) By using fertilizers in large amount
54. In refrigerators, good products are preserved by inhibiting microbial growth as they:
A) Do not get optimum temperature for growth.....
B) Do not get CO₂ supply
C) Do not get O₂ supply
D) Both A and C
55. In the process of nitrogen fixation:
i) The nitrogenous compounds are formed from atmospheric nitrogen
ii) Nitrogen is fixed to form NH₃
iii) NO³ to N₂
A) i and ii only B) ii and iii only C) i and iii only D) i, ii and iii

56. Symbiotic nitrogen fixing bacteria are present in:
- i) Azolla ii) Pinus iii) Cycas iv) Gnetum
A) i, ii and iii B) i only C) ii and iii D) ii only
57. India has rich and varied biodiversity because of a presence of variety of 'X'. X is an environment in which an animal lines identify X.
- A) Habitat B) Reservoir C) Home D) Resort
58. X is the totality of genes, species and ecosystems of a region. Identify X
- A) Biosphere reserve B) Biodiversity C) Bio-conservation D) Bio-community
59. How many mega biodiversity nations are present
- A) 11 B) 17 C) 13 D) 14
60. The introduction of exotic species into an area
- A) Helps to conserve wildlife B) Helps to protect biodiversity
C) Affects nature species adversely D) Helps nature species to survive
61. The energy dependent process among the following is
- A) Exosmosis B) Endosmosis C) Active transport D) Facilitated diffusion
62. Who formulated the cell theory?
- A) Robert Hooke B) Leewen hoek C) Marcello malpighi D) Schleiden and schwann
63. The control centre of the cell is
- A) Mitochondria B) Nucleus
C) Chloroplast D) Endoplasmic reticulum
64. Fragmentation is seen in
- A) Plasmodium B) Amoeba C) Sea stars D) Hydra
65. The structural and functional unit of nervous system is
- A) Axon B) Neuron C) Taxon D) Nephron
66. Adolescence is the period of life between
- A) 8–18 years B) 9–19 years C) 10-19 years D) 13-21 years
67. Corpus is a viral disease caused by
- A) Rinderpest D) Tick feller C) Anthrax D) Pox viruses
68. Identify the major air pollutant of air
- A) Carbon monoxide B) Nitrogen C) Oxygen D) Propane
69. The Taj mahal is being affected by the local factors and the oil refinery due to
- A) Land pollution B) Air pollution C) Water pollution D) Soil pollution
70. Volcanoes can contribute to air pollution through the release of toxic gases. Identify the gases
- A) Carbon dioxide B) Sulphur dioxide C) Hydrogen chloride D) All of the above

71. In grafting good care has to be used to match which layer of the
A) Cambium B) Scion C) Root D) Top
72. What time of the year should cleft grafting be done in?
A) Late spring B) Early spring C) Early summer D) Later fall
73. The least scion wood comes from where?
A) Regular scion B) Bought from a plant store
C) New shoots grown D) The shoots grown from the previous year
74. The seed coat is formed from
A) Integuments B) Ovary C) Endosperm D) Pericarp
75. All the following structures are present in dicot seed except
A) Radicle B) Endosperm C) Coleoptile D) Seed coat

MATHEMATICS

76. The associative property is applicable to
A) Addition and subtraction B) Multiplication and division
C) Addition and multiplication D) Subtraction and division
77. The solution of $2x-5 = 9$ is
A) 5 B) 14 C) 11 D) 7
78. The value of $\frac{2}{11} + \frac{3}{7}$ is
A) $\frac{47}{77}$ B) $\frac{45}{77}$ C) $\frac{6}{77}$ D) $\frac{44}{77}$
79. Which of the following is not a parallelogram?
A) Rhombus B) Trapezium C) Rectangle D) Square
80. A die is thrown. What is the probability of getting even numbers is ?
A) $\frac{1}{2}$ B) $\frac{1}{6}$ C) $\frac{1}{3}$ D) $\frac{2}{3}$
81. The degree of the equation $x^2 - 2 = 3x^2$ is
A) 1 B) 0 C) 3 D) 2
82. If the two angles of a triangle are 50° and 70° respectively. Find the measure of the third angle
A) 50° B) 60° C) 80° D) 90°
83. The value of $\left(\frac{-3}{7}\right) \times \frac{1}{2} \times 0$ is
A) $\frac{-3}{14}$ B) 0 C) $\frac{3}{14}$ D) $\frac{3}{7}$

84. What is the general formula to count the sum of all the interior angles of a polygon with 'n' number of sides?
- A) $(n-2) \times 90^\circ$ B) $(n+2) \times 180^\circ$ C) $(n-2) \times 180^\circ$ D) $(n+2) \times 90^\circ$
85. The rational number whose reciprocal is not a rational number is
- A) 1 B) -1 C) $-\frac{1}{5}$ D) 0
86. $\frac{5}{2}x + \frac{5}{7} = \frac{5}{2}$. Find x
- A) $\frac{5}{7}$ B) $\frac{7}{5}$ C) $\frac{10}{14}$ D) $\frac{5}{4}$
87. The number of times that a particular entry occurs is called
- A) Range B) Class interval C) Frequency D) Data
88. The perimeter of a rectangle is 56 cm. If its width, is 12 cm, then find the length
- A) 14 B) 28 C) 12 D) 16
89. A simple closed curve made up of only line segments is called.....
- A) Square B) Rectangle C) Polygon D) Triangle
90. What is $\frac{1}{-3} \times \frac{3}{5}$?
- A) $\frac{-1}{3}$ B) $\frac{-3}{15}$ C) $\frac{3}{-5}$ D) $\frac{3}{15}$
91. A number multiplied by 8 gives 256. What is the number?
- A) 22 B) 7 C) 8 D) 32
92. The perimeter of a parallelogram whose parallel sides have lengths 12 cm and 8 cm is
- A) 21 cm B) 20 cm C) 40 cm D) 38 cm
93. How many diagonals does a triangle have?
- A) Infinite B) 1 C) 3 D) 0
94. The multiplicative identify of rational numbers is
- A) 0 B) 1 C) 2 D) -1
95. What is $\frac{5}{8} \div \frac{2}{3}$?
- A) $\frac{10}{24}$ B) $\frac{16}{15}$ C) $\frac{15}{16}$ D) $\frac{5}{24}$

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96. The solution of $\frac{x}{2} = 10$ is
- A) 20 B) 10 C) 5 D) 15
97. A polygon with minimum number of sides is
- A) Line B) Triangle C) Angle D) Square
98. What is the reciprocal of $\frac{-1}{5}$?
- A) -5 B) 5 C) 0 D) $\frac{1}{5}$
99. Which natural number is equal to its cube?
- A) 2 B) 1 C) 4 D) 3
100. The sum of the outer angles of any polygon is
- A) 180° B) 90° C) 300° D) 360°

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ClassIX(VIII Studying)

PHYSICS

CHEMISTRY

BIOLOGY

MATHEMATICS

1. C
2. C
3. B
4. A
5. A
6. C
7. B
8. D
9. A
10. C
11. C
12. D
13. A
14. D
15. B
16. B
17. D
18. B
19. B
20. B
21. D
22. A
23. A
24. D
25. A

26. D
27. A
28. C
29. D
30. C
31. B
32. C
33. A
34. D
35. B
36. D
37. C
38. B
39. A
40. C
41. C
42. D
43. A
44. D
45. C
46. A
47. C
48. B
49. D
50. B

51. B
52. A
53. C
54. A
55. D
56. A
57. A
58. B
59. B
60. C
61. C
62. D
63. B
64. C
65. B
66. C
67. D
68. A
69. B
70. D
71. A
72. B
73. D
74. A
75. C

76. C
77. D
78. A
79. B
80. A
81. D
82. B
83. B
84. C
85. D
86. A
87. C
88. D
89. C
90. B
91. D
92. C
93. D
94. B
95. C
96. A
97. B
98. A
99. B
100. D

