



SAMPLE TEST PAPER

Class VIII



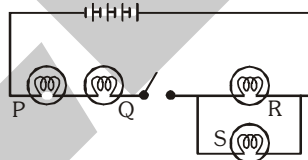
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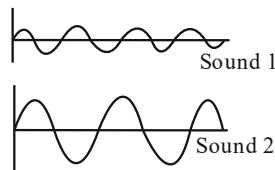
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10. The sound waves in a medium are characterised by the :-
 (1) linear motion of particles in the medium.
 (2) rotatory motion of particles in the medium.
 (3) oscillatory motion of particles in the medium.
 (4) none of the above
11. Water waves in the sea are observed to have a wavelength of 300m and a frequency of 0.07 Hz. The speed of these waves is :-
 (1) 0.00021 m/s (2) 2.1 m/s (3) 21 m/s (4) 210 m/s
12. A sound wave has a wavelength of 3.0 m. The distance from a compression center to the adjacent rarefaction center is :-
 (1) 0.75m (2) 1.5 m
 (3) 3.0 m (4) Need to know wave speed
13. To raise the pitch of a certain piano string, the piano tuner
 (1) loosens the string (2) tightens the string
 (3) shortens the string (4) lengthens the string
14. When a glass rod is rubbed with silk , it :-
 (1) Gains electrons from silk (2) Gives electrons to silk
 (3) Gains protons from silk (4) Gives protons to silk
15. Current in a conductor is due to :-
 (1) motion of free electrons in it (2) motion of positive ions in it
 (3) motion of negative ions (4) motion of protons
16. A total charge of 90 Coulombs flows in a conductor during a time of 5 minutes. What is the strength of current in the conductor?
 (1) 0.3 A (2) 3.33 A (3) 0.055 A (4) 18 A
17. Observe the circuit shown below :



Identify the bulbs that glow when switch is in the 'OFF' position?

- (1) P and Q only (2) Only S
 (3) R and S only (4) None of the bulbs glow
18. A conductor carries a current of 2A. How long will it take for 1800 C of electricity to flow through a given cross-section?
 (1) 15 min (2) 10 min (3) 5 min (4) 1 min
19. Observe the following diagrams of two sound wave -



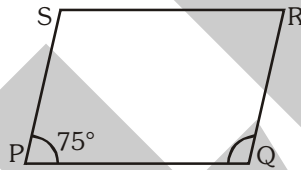
Which of the following is correct regarding sound 2 -

- (1) it's pitch is lower but loudness is higher than sound 1
 (2) its pitch is higher but loudness is lower than sound 1
 (3) its pitch is equal to sound 1 but its loudness is greater
 (4) its loudness is equal to sound 1 but its pitch is higher

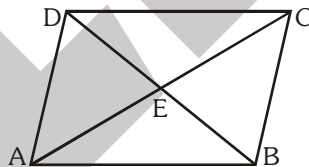
20. Which of the following represents the correct relationship among the wave speed, frequency and the wavelength of a wave-
- (1) $f = v\lambda$ (2) $v = f\lambda$ (3) $v = \frac{f}{\lambda}$ (4) $f = \frac{\lambda}{v}$
21. Which of the following best describes the image formation by a plane mirror?
- (1) A real image is formed in front of the mirror
 (2) A real image is formed behind the mirror
 (3) A virtual image is formed in front of the mirror
 (4) A virtual image is formed behind the mirror
22. During normal incidence of light
- (1) Angle of incidence is 90°
 (2) Angle of incidence is 0°
 (3) Sum of angle of incidence and angle of reflection is 90°
 (4) Angle of incidence is greater than angle of reflection
23. The image of an object formed on the retina of the eye is
- (1) Virtual and erect (2) Real and erect
 (3) Real and inverted (4) Virtual and inverted
24. The maximum force of friction when the body is just beginning to move is known as the
- (1) limiting friction (2) rolling friction
 (3) kinetic friction (4) (1) and (2) both
25. It is difficult to walk on ice because of
- (1) absence of friction (2) absence of inertia
 (3) more inertia (4) more friction
26. Which is a natural polymer?
- (1) Cellulose (2) Nylon (3) Acrylic (4) Polyester
27. Which is a natural material?
- (1) Marble (2) Plastic (3) Polythene (4) None
28. Which of the following fibre also known as artificial silk?
- (1) Nylon (2) Polyester (3) Rayon (4) Teflon
29. _____ is an example of natural fibre.
- (1) Nylon (2) Rayon (3) Jute (4) Terylene
30. Surgical bandages are made of :-
- (1) Rayon (2) Nylon (3) Polyester (4) Wool
31. Monomer unit of Nylon are _____ .
- (1) Adipic acid (2) Hexamethylene diamine
 (3) Both (1) & (2) (4) None of these
32. When sulphur reacts with oxygen, the oxide formed is ___ in nature.
- (1) alkaline (2) neutral (3) basic (4) acidic
33. Metals like zinc and aluminium react with sodium hydroxide to produce ___ gas.
- (1) hydrogen (2) hydrogen sulphide (3) oxygen (4) sulphur dioxide
34. The property by which metals can be beaten into sheets is known as ____
- (1) ductility (2) sonority (3) lusture (4) malleability
35. When MgO is dissolved in water, $Mg(OH)_2$ is obtained. The solution thus obtained is ___ in nature.
- (1) amphoteric (2) alkaline (3) neutral (4) acidic

36. Which of the following metals does not react even with steam.?
 (1) Silver (2) Iron (3) Calcium (4) Sodium
37. The most reactive metal is:
 (1) Iron (2) Gold (3) Zinc (4) Potassium
38. The metal which can be cut with a knife
 (1) Sodium and potassium (2) Barium and calcium
 (3) Sodium and mercury (4) Potassium and calcium.
39. The metal which is stored in kerosene:
 (1) Phosphorus (2) Magnesium (3) Sodium (4) Magnesium
40. Which non-metals have semi-conductor property ?
 (1) Boron (2) Carbon (3) Silicon (4) Magnesium
41. A How is coke superior than coal as a fuel?
 (1) Coal is a mineral and burns releasing smoke while coke is a residue.
 (2) Coal is an impure form of carbon, while coke is a pure form of carbon.
 (3) Only coal consists of atoms of carbon, hydrogen, oxygen and sulphur while coke mainly consists of carbon.
 (4) All of the above
42. Which of the following is in descending order of the quality of coal?
 (1) Peat > bituminous > lignite > anthracite
 (2) Bituminous > peat > lignite > anthracite
 (3) Anthracite > bituminous > lignite > peat
 (4) Lignite > anthracite > bituminous > peat
43. Which of the following is an example of a liquid fuel?
 (1) Paraffin wax (2) Coal gas (3) L.P.G. (4) Alcohol
44. Which of the following statements are correct?
 (I) Coal, petroleum and natural gas are called fossil fuels.
 (II) Coal and natural gas are exhaustible substances.
 (III) CNG is more polluting than petrol.
 (IV) Coke is used in the manufacture of steel.
 (1) I and II only (2) II and IV only (3) I, III and IV only (4) I, II and IV only
45. Destructive distillation of coal is carried out by heating coal strongly to 1000°C in the absence of air. The various useful products obtained are :-
 (1) Crude oil, kerosene, naphtha and heavy oil
 (2) Coke, coal gas, coal tar and ammonium compounds
 (3) Coal gas, petroleum gas and lignite
 (4) None of these.
46. Read the given passage and fill in the blanks by choosing an appropriate option.
 The process of conversion of wood into coal is called :
 (i) There are 4 varieties of coal which vary in their carbon content.
 (ii) has upto 95 per cent of carbon
 (iii) has about 65 per cent carbon while
 (iv) has about 30 KJ/gm calorific value
 (1) (i) Destructive distillation (ii) Lignite (iii) Anthracite (iv) Bituminous coal
 (2) (i) Carbonisation (ii) Anthracite (iii) Lignite (iv) Bituminous coal
 (3) (i) Carbonisation (ii) Anthracite (iii) Bituminous (iv) Lignite coal
 (4) (i) Destructive distillation (ii) Bituminous (iii) Anthracite (iv) Lignite coal

57. If $\left(\frac{a}{b}\right) = \left(\frac{5}{2}\right)^{-3} \times \left(\frac{8}{15}\right)^{-3}$, then $\left(\frac{a}{b}\right)^{-2}$ is equal to
 (1) $\left(\frac{4}{3}\right)^6$ (2) $\left(\frac{3}{4}\right)^{-6}$ (3) Both (1) and (2) (4) None of these
58. $\left\{\left(\frac{5}{3}\right)^{15}\right\}^0$ is equal to
 (1) $\frac{5}{3}$ (2) $\frac{3}{5}$ (3) 1 (4) None of these
59. $3(x - 5) - 5(x - 2) = 0$, then value of x is
 (1) $\frac{2}{5}$ (2) $\frac{5}{2}$ (3) $-\frac{5}{2}$ (4) None of these
60. If $\frac{2x+7}{5x+8} = \frac{2x+6}{5x+4}$, then x =
 (1) $x = -6\frac{2}{3}$ (2) $x = -3\frac{1}{2}$ (3) $x = -2\frac{1}{2}$ (4) $x = -3\frac{6}{7}$
61. What should be added to twice the rational number $-\frac{7}{3}$ to get $\frac{3}{7}$?
 (1) $\frac{100}{21}$ (2) $\frac{107}{21}$ (3) $\frac{170}{21}$ (4) None of these
62. If $\angle P = 75^\circ$, then $\angle Q =$
 (1) 75° (2) 90° (3) 105° (4) 100°



63. In the given figure, ABCD is a parallelogram, diagonals BD and AC intersect each other at E. If $BE + CE = 8$ cm, then $AC + BD$ is equal to



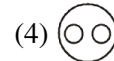
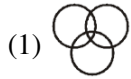
- (1) 16 cm (2) 14 cm (3) 20 cm (4) 24 cm
64. Which of the following are equiangular and equilateral polygons?
 (1) Square (2) Rhombus (3) Kite (4) None of these
65. The point $(-6, 0)$ lies on ____ axis
 (1) Y-axis (2) X-axis (3) Both axes (4) None of these
66. On joining the points if we get a straight line, that graph is called
 (1) Bar graph (2) Pie chart (3) Linear graph (4) None of these
67. If
$$\begin{array}{r} A \\ + A \\ + A \\ \hline BA \end{array}$$

 The possible values of A and B are
 (1) $A = 0, B = 2$ (2) $A = 5, B = 1$ (3) $A = 5, B = 0$ (4) $A = 0, B = 5$

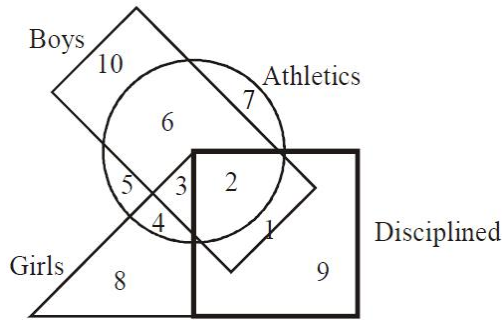
68. If the number $42573x$ is exactly divisible by 72, then the minimum value of x is :
- (1) 4 (2) 5 (3) 6 (4) 7
69. The value of $\frac{9x^2 - 24xy + 16y^2}{3x - 4y}$ is
- (1) $3x + 4y$ (2) $3x - 4y$ (3) $4x - 3y$ (4) $4x + 3y$
70. If $x + \frac{1}{x} = a + b$ and $x - \frac{1}{x} = a - b$, then
- (1) $ab = 1$ (2) $a = b$ (3) $ab = 2$ (4) $a + b = 0$
71. The length of the diagonal of a quadrilateral is 40 cm and the perpendicular drawn to it from the opposite vertices are 12 cm and 7.5 cm. Find the area of the quadrilateral.
- (1) 380 cm^2 (2) 382 cm^2 (3) 390 cm^2 (4) 392 cm^2
72. The liquid filled in a cuboidal tin $60 \text{ cm} \times 15 \text{ cm} \times 12 \text{ cm}$ is poured into a cylinder with area of base 540 cm^2 . Find the height of the liquid in the cylinder.
- (1) 10 cm (2) 40 cm (3) 200 cm (4) 20 cm
73. If $A : B = 5 : 7$ and $B : C = 6 : 11$, then $A : B : C$ is
- (1) $55 : 77 : 66$ (2) $30 : 42 : 77$ (3) $35 : 49 : 42$ (4) None of these
74. If the cost of " x " metres of wire is " d " rupees, then what is the cost of " y " metres of wire at the same rate?
- (1) Rs. $\left(\frac{xy}{d}\right)$ (2) Rs. (xy) (3) Rs. (yd) (4) Rs. $\left(\frac{yd}{x}\right)$
75. A polyhedron has 10 vertices and 7 faces. How many edges does this polyhedron has?
- (1) 15 (2) 25 (3) 20 (4) 30
76. Transfer of seedlings from nursery to the main field is -
- (1) Transplantation (2) Sowing (3) Weeding (4) None
77. Which one of the following is a weed ?
- (1) Wheat (2) Chenopodium (3) Maize (4) Rice
78. The crops that are harvested by March and April are -
- (1) Rabi crops (2) Kharif crops (3) Medicinal crop (4) Fibre crops
79. Ploughing, leveling and manuring are the steps of -
- (1) Preparation of soil (2) Sowing (3) Irrigation (4) Weeding
80. The microorganism which has the ability to fix nitrogen is -
- (1) Virus (2) Euglena (3) Rhizobium (4) Amoeba
81. The protozoa which can perform photosynthesis
- (1) Amoeba (2) Paramecium (3) Euglena (4) Giardia
82. Formation of curd by milk is done by -
- (1) Lactobacillus (2) Moulds (3) Yeasts (4) algae
83. Yeast is used in the production of -
- (1) Sugar (2) Alcohol (3) Oxygen (4) None
84. The main function of a plasma membrane is to -
- (1) Prevent water from entering or leaving
 (2) Control what goes into and out of the cell
 (3) Act as a sieve, allowing only lipids to pass
 (4) Move the cell from place to place

85. Who first coined the word "cell" ?
 (1) Aristotle (2) Hooke (3) Schwann (4) Leuwenhoek
86. The name "power house of the cell" has been given to -
 (1) Centrioles (2) Ribosome (3) Mitochondria (4) Lysosome
87. Plant cell does not have -
 (1) Lysosome (2) Cell wall (3) Chloroplast (4) Vacuoles
88. Which of the following is considered as 'Kitchen' of the plant cell ?
 (1) Chloroplast (2) Chromoplast (3) Leucoplast (4) None
89. All the animals found in a particular area are termed as -
 (1) Flora (2) Fauna (3) Trees (4) Garden
90. Consequences of deforestation is -
 (1) Reduced rainfall (2) Desertification
 (3) Global warming (4) all of these
91. The Red Data Book gives an account of -
 (1) Endangered plants (2) Extinct animals
 (3) Endangered plants and animals (4) None
92. Which of the following is not an endangered species ?
 (1) Peacock (2) Indian Rhino
 (3) Asiatic lion (4) Great Indian bustard
93. Secretions of endocrine glands are called -
 (1) enzymes (2) hormones (3) catalysts (4) sugars
94. Which of these is the master gland ?
 (1) pituitary (2) thyroid (3) ovary (4) adrenal
95. Which of the following is not a part of female reproductive system ?
 (1) ovary (2) oviduct (3) uterus (4) embryo
96. Sperms in males are produced in -
 (1) testes (2) urethra (3) epididymis (4) penis
97. Which is a viviparous animal ? -
 (1) Frog (2) Lizard (3) Man (4) snake
98. Cervix is a part of -
 (1) Ovary (2) Vagina (3) Uterus (4) Oviduct
99. Ameoba reproduce through -
 (1) Binary fission (2) Budding
 (3) Fertilisation (4) Tertiary fusion
100. In mammals the female secondary sexual characters are developed by the hormone
 (1) relaxin (2) estrogens
 (3) progesterone (4) gonadotropins
101. If the following words are arranged as found in the dictionary, then what will be the fourth letter from the left in the last word?
 INTIMATION, INFORMATION, INTEREST, INTERROGATION, INSTIGATION
 (1) R (2) O (3) T (4) I
102. Choose the odd one
 (1) 43 (2) 53 (3) 63 (4) 73

115. Which of the following diagrams indicates the best relation between Professors, Doctors and Men?



116. In the following diagram the boys who are athletic and are disciplined are indicated by which number?



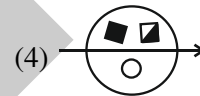
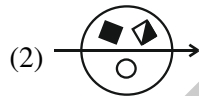
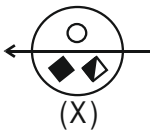
(1) 1

(2) 2

(3) 10

(4) 6

117.



118. If Anil is the brother of the son of Sunil's son, what is the relationship between Anil and Sunil?

(1) Cousin

(2) Brother

(3) Nephew

(4) Grandson

119. P and Q are married couple. A and B are brothers. A is the brother of P. How is B related to Q.

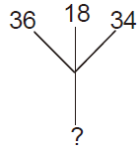
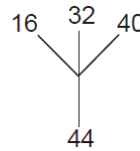
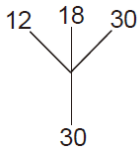
(1) Brother-in-law

(2) Brother

(3) Cousin

(4) Son-in-law

120.



(1) 48

(2) 9

(3) 44

(4) 64