

School Integrated Program

Class – VIII

SAMPLE PAPER

INSTRUCTIONS

[Time: 3 Hours]

[Max Marks: 450]

A. General:

1. *This booklet is your Question Paper containing 150 questions.*
2. *Blank Papers, Clipboards, Log Tables, slide rules, calculators, cellular phones, pagers and electronic gadgets in any form are not allowed to be carried inside the examination hall.*
3. *The answer sheet, a machine-readable optical mark recognition sheet (OMR Sheet), is provided separately.*
4. *DO NOT TAMPER WITH / MULTIPLE THE OMR OR THE BOOKLET.*
5. *Please fill your roll number correctly in the OMR sheet (answer sheet).*
6. *Both Question Paper and OMR Answer Sheet will be submitted after completion of this examination.*

B. Question Paper Format:

1. *The Question Paper consists of five parts (Part I: MAT, Part II: Physics, Part III: Chemistry, Part IV: Biology, Part V: Mathematics).*
2. *Each Question carries +3 marks for correct answer and -1 mark for incorrect answer.*

Note

- A. *Instructions mentioned on this page are of actual test. It has no reference with the questions / pattern of this paper.*
- B. *This paper is provided just to share the pattern, format and level of questions that could be a part of actual test.*

MAT

Choose the correct answer

- If cook is called butler, butler is called manager, manager is called teacher, teacher is called clerk and clerk is called principal, who will teach in a class?
(A) Clerk (B) Butler (C) Manager (D) Teacher
- Introducing a man, a woman said, 'He is the only son of my mother's mother.' How is the woman related to the man?
(A) Mother (B) Aunt (C) Sister (D) Niece
- Nisha was born on 30 January. Reshma is older than Nisha by 21 days. During that year, the Republic day was celebrated on Wednesday. On which day was Reshma born?
(A) Sunday (B) Monday (C) Tuesday (D) Friday

Choose the correct alternative which should be filled in the blank from 17-22

- $01 : 08 = \text{_____} : 64$
(A) 09 (B) 16 (C) 36 (D) 49
- If in a certain language P R O S E is coded as P P O Q E, how is ' L I G H T' coded in that code?
(A) LIGHT (B) LLGFE (C) JIEHR (D) LGGFT
- | | | |
|----|----|----|
| 62 | 35 | 27 |
| 47 | 29 | ? |
| 50 | 38 | 12 |

(A) 27 (B) 13 (C) 20 (D) 18
- Z, X, V, T, R, (?), (?)
(A) O, K (B) N, M (C) K, S (D) P, N
- $\frac{?}{?} ab a \frac{?}{?} ba \frac{?}{?} a$
(A) abba (B) abba (C) baabb (D) bbaba

PHYSICS

- 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
- By applying a force of 1N, one can hold a body whose mass is approximately equal to
(A) 100 mg (B) 100 g (C) 1 kg (D) 10 kg
- Action-reaction forces
(A) Act on the same body (B) Act on different bodies
(C) Act along different lines (D) Act in the same direction

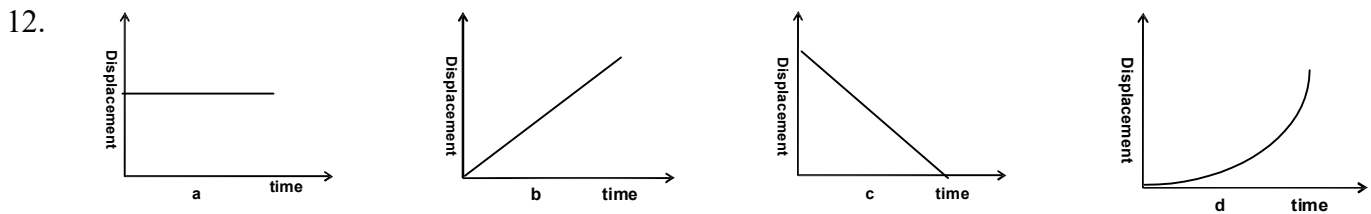
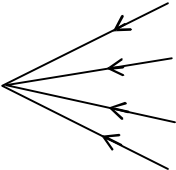
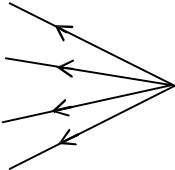
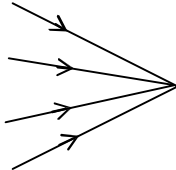


Figure shows the displacement-time graphs for the four particles a, b, c and d. An unbalanced force is acting on the particle

- (A) a (B) b (C) c (D) d
13. Pascal is a unit of
 (A) Pressure (B) Force (C) Linear momentum (D) Energy
14. Pinhole camera is based on the principle of
 (A) Rectilinear propagation of light (B) Curvilinear propagation of light
 (C) Reflection of light (D) Refraction of light
15. Which of the following figures represents divergent beam of light?
 (A)  (B)  (C)  (D) None of the above
16. Which of the following phenomena is involved in kaleidoscope?
 (A) Reflection (B) Refraction
 (C) Total internal reflection (D) Both reflection and refraction

CHEMISTRY

17. Nylon is prepared from
 (A) Coal, water and air (B) coal and petroleum
 (C) Wood (D) Petroleum
18. Name the fibre which is used for making bristles for tooth brushes and paint brushes.
 (A) Polyester (B) Nylon (C) Cotton (D) Silk
19. The rearing of silkworms for obtaining silk is called
 (A) Moriculture (B) Apiculture (C) Sericulture (D) Floriculture
20. Which among the following cannot be softened on heating?
 (A) Bakelite (B) PVC (C) Toys (D) Plastic chair
21. Which of the following is not a fabric type
 (A) Cotton (B) Silk (C) Nylon (D) Plastic
22. The chemical name of repeating unit present in polyester is
 (A) glucose (B) amide
- Nylon is prepared from
 (A) Coal, water and air (B) Coal and petroleum
 (C) Wood (D) Petroleum
23. Name the fibre which is used for making bristles for tooth brushes and paint brushes.
 (A) Polyester (B) Nylon (C) Cotton (D) Silk

24. The rearing of silkworms for obtaining silk is called
 (A) Moriculture (B) Apiculture (C) Sericulture (D) Floriculture

BIOLOGY

25. Which of the following correctly describes the relationship, from simplest to most complex, among the terms listed?
 (A) cell — tissue — organ — organism
 (B) organism — organ — tissue — cell
 (C) cell — tissue — organism — organ
 (D) tissue — cell — organ — organism
26. The basis of grouping of living organisms into eukaryotes and prokaryotes is -
 (A) Ribosomes (B) Nucleus (C) Plasma membrane (D) None of these
27. Cell organelles are embedded in-
 (A) Cytoplasmic membrane (B) Protoplasm
 (C) Mitochondrion (D) Nucleolus
28. The smallest organelle in a cell is-
 (A) Lysosome (B) Spherosome (C) Peroxisome (D) Ribosome
29. A compound produced by an organism that inhibits the growth of another micro – organism is called
 (A) Antiseptic (B) Antibiotic (C) Anticoagulent (D) Antibodies.
30. Yeast is used in preparation of
 (A) Acetic acid (B) Curd (C) Ethyl alcohol (D) Cheese.
31. What is Full form of D.D.T.
 (A) Difloro Diphenyl Trichloromethane (B) Difloro Diphenyl Trichloroethane
 (C) Dichloro Diphenyl Trichloromethane (D) Dichloro Diphenyl Trichloroethane.
32. The crops grown during November – April are.
 (A) Kharif crops (B) Rabi crops (C) Zaid (D) Non perishable.

MATHEMATICS

33. If $\frac{1}{x}, \frac{1}{x^2}, \frac{1}{x^3}, \frac{1}{x^4}, \frac{1}{x^5}, \frac{1}{x^8}$ then find the value of x^{16} .
 (A) 1 (B) 2 (C) 3 (D) 4
34. If $a^x = b, b^y = c$ and $c^z = a$, then $xyz = ?$
 (A) 1 (B) 2 (C) 3 (D) None of these
35. The sum of five consecutive multiples of 5 is 300. Find third multiples.
 (A) 45 (B) 50 (C) 55 (D) 60
36. The ratio of the measure of an angle of a regular nonagon to the measure of its exterior angle is
 (A) 3 : 5 (B) 5 : 2 (C) 7 : 2 (D) 4 : 5
37. If $m < n$ then
 (A) $m^2 < n^2$ (B) $m^2 > n^2$ (C) $mn < nm$ (D) $m^3 < n^3$

38. A number is formed by repeating any digit 6 times (e.g 2, 22, 222, 5, 55, 55 etc) Such a number is always divisible by
 (A) 7 (B) 13 (C) 11 (D) All of the above
39. The value of $\frac{1}{a} \cdot \frac{1}{a} \cdot \frac{1}{a} \cdot \frac{1}{a} \cdot \frac{1}{a} \cdot \frac{1}{a}$ is
 (A) $\frac{a-1}{a}$ (B) $\frac{a-3}{a-3}$ (C) $\frac{a-3}{a-3}$ (D) $\frac{a}{a-1}$
40. If the perimeter of a square is $(4y + 12)m$, then the length of its diagonal is
 (A) $\frac{y-3}{\sqrt{2}} m$ (B) $\sqrt{2} y - 3 m$ (C) $\sqrt{2} 4y - 12 m$ (D) $\frac{4y-12}{\sqrt{2}} m$