School Integrated Program

Class – VII

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

1. 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

2. 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

3. 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?

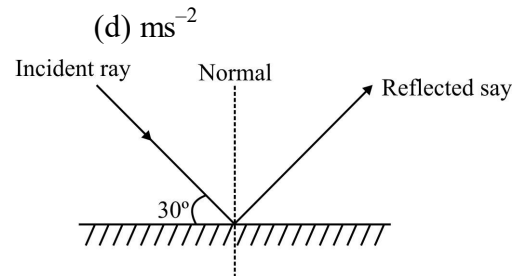   (A) Sunday   (B) Monday   (C) Tuesday   (D) Friday

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

4. $01 : 08 =$ _____ $: 64$

   (A) 09   (B) 16   (C) 36   (D) 49

5. 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

6.

62	35	27
47	29	?
50	38	12

   (A) 27   (B) 13   (C) 20   (D) 18

7. Z, X, V, T, R, (?), (?)

   (A) O, K   (B) N, M   (C) K, S   (D) P, N

8. $\underline{?}\ \underline{?}$ ab a $\underline{?}\ \underline{?}$ ba $\underline{?}$ ab

   (A) abbba   (B) abbab   (C) baabb   (D) bbaba

PHYSICS

9. Mass is a _____ quantity.

   (a) scalar   (b) vector   (c) both a and b   (d) neither of a nor b

10. SI unit of velocity is:

    (a) ms^{-1} (b) $m^{-1}s$ (c) ms (d) ms^{-2}

11. Find the angle of reflection in the given diagram.

    (a) 45º   (b) 60º

    (c) 30º   (d) 90º

12. A person goes from a place A to place B and then from B place to place C. Looking at the given diagram, find the distance and displacement.

(a) 6m, 7m   (b) 7m, 7m

(c) 7m, 5m   (d) 5m, 1m

13. A pendulum oscillates 120 times in 1 minute. Its time period is:

(a) 1 sec   (b) 120 sec   (c) 2 sec   (d) 0.5 sec

14. Plane mirror forms

(a) Real image   (b) Virtual   (c) Both real and virtual image   (d) None of these

15. Thermometer is used to:

(a) Measure the speed   (b) Measure the distance

(c) Measure the temperature   (d) Measure the weight

16. Normal temperature of human body is almost

(a) 34ºC   (b) 39ºC   (c) 37ºC   (d) 98ºC

CHEMISTRY

17. Vegetable fibres are made up of:

(a) Cellulose   (b) protein   (c) nylon   (d) Rayon

18. Sericulture is:

(a) Rearing of silk worms   (b) Rearing of sheep

(c) cotton plantation   (d) rearing of honey bees.

19. Sodium hydroxide is found is:

(a) Lemon   (b) Soap

(c) Oil of vitriol   (d) Table salt

20. What happens when hydrochloric acid and sodium hydroxide react?

(a) Neutralisation reaction takes place.

(b) Displacement reaction takes place

(c) No change is observed

(d) None of these

21. Which colour is given by phenolphthalein in an acidic solution?

(a) Yellow   (b) Pink   (c) Orange red   (d) Colourless

22. Which of the following is a physical change?

(a) Rusting of iron   (b) Heating of iron   (c) Burring of wood   (d) Ripening of a fruit.

23. Which of the following is not a physical property of the substance?

(a) shape   (b) colour   (c) density   (d) Flammability

24. When carbon dioxide gas is passed through lime water, it turns line water into:

(a) Milky   (b) Blue   (c) Silver   (d) Golden.
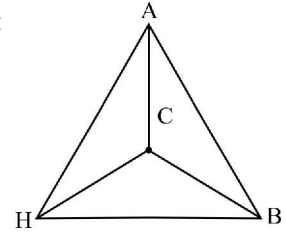
BIOLOGY

25. What is the muscular tube that connects the mouth to the stomach?

    (a) Oesophagus   (b) Duodenum   (c) Digestive tract   (d) Trachea

26. The vascular tissue for the transport of food and nutrients in the plants is called:

    (a) Xylem   (b) Phloem   (c) Cytoplasm   (d) Meristematic tissue

27. Over a period of years, the average rainfall in area decreases, causing environmental changes. Which of the following populations would be most likely to survive these environmental changes?

    (a) a population with greatest amount of genetic variation.

    (b) a population with the least amount of genetic variation.

    (c) a population that has been altered through artificial selection.

    (d) a population with the smallest population size.

28. Some organisms live on other organism and feed on them. This type of nutrition is called as:

    (a) Heterotrophic nutrition   (b) Parasitic nutrition.

    (c) Symbiotic nutrition.   (d) Saprotrophic nutrition.

29. Red eyed frog has developed which characteristic, which help them to climb trees?

    (a) Vacuum feet   (b) strong arms to hold the branches of tree

    (c) sticky pads on its feet   (d) Thin body to climb faster

30. The instrument used to measure humidity is called

    (a) Vacuum ganges   (b) Sphygmomanometer

    (c) Thermometer   (d) Hygrometer

31. When the breakdown of glucose occurs with the use of oxygen, it is called

    (a) Aerobic respiration   (b) Anaerobic respiration

    (c) Fermentation   (d) Glycolysis

32. The photosynthetic symbiotic of lichen is

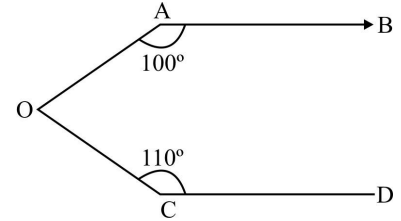   (a) legumes   (b) moss   (c) algae   (d) fungus

MATHEMATICS

33. Simply:
$$\cfrac{1}{1\ \cfrac{2}{\cfrac{3}{1\ \cfrac{2}{3}\ \cfrac{8}{\cfrac{9}{1\ \cfrac{2}{3}}}}}}$$

    (a) $\dfrac{11}{13}$ (b) $\dfrac{13}{15}$ (c) $\dfrac{13}{11}$ (d) $\dfrac{15}{13}$

34. $16^5 + 2^{15}$ is divisible by:

    (a) 31   (b) 13   (c) 27   (d) 33

35. In the given figure $\angle ACB \cong \angle ACH \cong \angle BCH$. The value of $\angle BCH$ is:
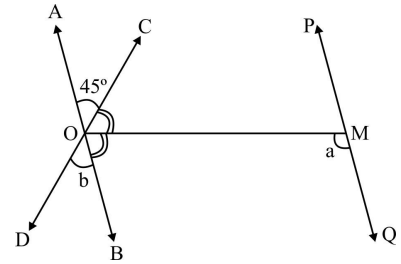
(a) 60º (b) 30º

(c) 120º (d) 45º

36. In a triangle ABC, AB = 5 cm and BC = 4 cm which of the following is true?

(a) 1 cm < CA < 9 cm (b) 2 cm < CA < 10 cm

(c) 4 cm < CA < 5 cm (d) 1 cm < CA < 5 cm

37. In the given figure, if AB||CD, $\angle BAO = 100º$ and $\angle OCD = 110º$ the value of $\angle AOC$ is:

(a) 210º (b) 80º

(c) 140º (d) 150º

38. One of the angles of a triangle is equal to the sum of the other two angles. If the ratio of the other two angles is 5 : 4. Then the smallest angle of the triangle is:

(a) 40º (b) 50º (c) 30º (d) 45º

39. In the given figure, if COD is a straight line, OM is the bisector of $\angle COB$ and AB||PQ. Then a – b is

(a) 22.5º (b) 45º

(c) 135º (d) 67.5º

40. In the given figure, the value of x is: (a) 45º (b) T (c) 90º – T (d) 90º

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