



# MACRO VISION ACADEMY, BURHANPUR

## Sample Paper 2022-23

Office Use

Class: IX

Time: 90 min

M.M.: 50

Student's Name:- \_\_\_\_\_ Father's Name:- \_\_\_\_\_

City:- \_\_\_\_\_ Mobile No:- \_\_\_\_\_ Exam Date:- \_\_\_\_\_

Studying in Class: \_\_\_\_\_ Appearing for class:- \_\_\_\_\_ Board: MP/CBSE/Other \_\_\_\_\_

### GENERAL INSTRUCTIONS:

- The question paper has 50 questions in all. Each question carries 1 mark.
- All questions are compulsory.
- Section A contains 10 questions of Mathematics.
- Section B contains 15 questions of Science.
- Section C contains 10 questions of Social Science.
- Section D contains 5 questions of MAT (Mental Ability Test).
- Section E contains 10 questions of English.

Mathematics (10)	Science (15)	So. Science (10)	MAT (05)	English (10)	OBTAINED (50)

### Section A

#### Mathematics

- What should be added to  $-5/4$  to get  $-1$ ?  
(a)  $\frac{-1}{4}$                       (b)  $\frac{1}{4}$                       (c) 1                      (d)  $\frac{-3}{4}$
- Which of the following is the numerical coefficient of  $x^2y^2$ ?  
(a) 0                      (b) 1                      (c)  $x^2$                       (d)  $y^2$
- Which of the following is correct?  
(a) Cube of a negative number is always positive.  
(b) Cube of a negative number is always negative.  
(c) Cube of a negative number may be positive or negative.  
(d) All of the above
- $(0, y)$  are the co-ordinates of a point lying on which of the following?  
(a) origin                      (b) x-axis                      (c) y-axis                      (d) none of these.
- How many number of faces does a solid sphere has?  
(a) 1                      (b) 2                      (c) Many                      (d) None
- On what a discount is calculated?  
(a) selling price                      (b) market price                      (c) marked price                      (d) none of these

7. Which of the following is the area of a rhombus?
- (a) Product of its diagonals (b)  $\frac{1}{2}$  (sum of its diagonals)
- (c) 2 (Product of its diagonals) (d)  $\frac{1}{2}$  (Product of its diagonals)
8. The range of the data: 6,14,20,16,6,5,4,18,25,15, and 5 is
- (a) 4 (b) 21 (c) 25 (d) 20
9. What is the value of  $(-1)^{-1}$ ?
- (a) 0 (b) -1 (c) 1 (d) None of these
10. If 'x' and 'y' are in a direct proportion then which of the following is correct?
- (a)  $x - y = \text{constant}$  (b)  $x + y = \text{constant}$  (c)  $x \times y = \text{constant}$  (d)  $\frac{x}{y} = \text{constant}$

**Section B**  
**Science**

**DIRECTIONS (Qs. 11 to 12): Read the passage(s) given below and answer the questions that follow.**

In 1800, a British chemist, William Nicholson (1753–1815), had shown that if electrodes were immersed in water, and a current was passed, bubbles of oxygen and hydrogen were produced. Oxygen bubbles formed on the electrode connected to the positive terminal of the battery and hydrogen bubbles formed on the other electrode. The passage of an electric current through a conducting solution causes chemical reactions. As a result, bubbles of a gas may be formed on the electrodes. Deposits of metal may be seen on electrodes. Changes of colour of solutions may occur. The reaction would depend on what solution and electrodes are used. These are some of the chemical effects of the electric current.

11. Who shown that that if electrodes were immersed in water, and a current was passed, bubbles of oxygen and hydrogen were produced?
- (a) Isaac Newton (b) William Nicholson  
(c) Benjamin Franklin (d) Michael Faraday
12. Which of the following are not the chemical effects of the electric current?
- (a) Changes of colour of solutions may occur.  
(b) Changes of density of solutions may occur.  
(c) Deposits of metal may be seen on electrodes.  
(d) Bubbles may create at one of the electrodes.
13. If an object oscillates 20 times in one second, what would be its frequency?
- (a) 2 Hz (b) 20 Hz (c) 0.2 Hz (d) 4 Hz
14. Pressure exerted by 20N force on area of 0.2 m<sup>2</sup> will be \_\_\_\_\_ Pascal.
- (a) 4 (b) 20 (c) 100 (d) 10

15. When one body rolls over the surface of another body, the resistance to its motion is called  
(a) static friction (b) rolling friction (c) kinetic friction (d) none of the above

**Read the given passage and answer the following questions (Q16.-Q17):**

Pathogens enter our body through the air we breathe, the water we drink or the food we eat. They can also get transmitted by direct contact with an infected person or carried by an animal. Microbial diseases that can spread from an infected person to a healthy person through air, water, food or physical contact are called communicable diseases. Examples of such diseases include cholera, common cold, chicken pox and tuberculosis. When a person suffering from common cold sneezes, fine droplets of moisture carrying thousands of viruses are spread in the air.

16. Which of the following is not a communicable disease?  
(a) Common cold (b) Cholera (c) Cancer (d) Tuberculosis
17. Which among the following is not a pathogen?  
(a) virus (b) fungi (c) bacteria (d) none of these
18. Sound can travel through  
(a) gases only (b) liquids only (c) solids only (d) solids, liquids, gases
19. Force per unit area is called  
(a) pressure (b) friction (c) gravity (d) All of these
20. Which of the following is a poor conductor of electricity?  
(a) Salt solution (b) Distilled water (c) Vinegar (d) Lemon juice
21. Combustion of a substance releases heat and \_\_\_\_\_.  
(a) Oxygen (b) Wood (c) Light (d) Water
22. The transformation of the larva into an adult through drastic changes is called  
(a) Metaphase (b) Metastasis (c) Meteorite (d) Metamorphosis
23. Which of the following cells can change its shape  
(a) White blood cell (b) Egg cell (c) Red blood cell (d) All of the above
24. The process of loosening of the soil is called  
(a) tilling (b) harvesting (c) spraying (d) weeding
25. The unit of calorific value of a fuel is –  
(a) Newton (b) Joule (c) Gram (d) Kilojoule per kg

**Section C**


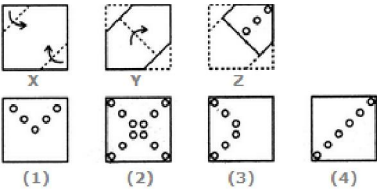
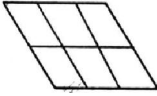
**Social Science**

26. Which is NOT the source of describing history?  
(a) Diaries of people (b) Conversation between two people  
(c) Accounts of pilgrims and travelers (d) Autobiographies of important personalities
27. Haidar Ali was the ruler of  
(a) Bengal (b) Delhi (c) Bombay (d) Mysore

28. Who was given the title of viceroy?  
 (a) Chief Commissioner (b) Governor General  
 (c) Forest Manager (d) None of these
29. Which one of the followings is not the way of saving energy at home?  
 (a) Keeping gas off when not in use (b) Cooking food in an open pan on low flame  
 (d) Switching on lights during daytime (d) Switching off lights when not in use
30. What kind of role citizens of India play in electing representatives?  
 (a) Indirect (b) No Role (c) Direct (d) Submissive
31. The right provided by constitution are called  
 (a) Governmental Right (b) Optional Right  
 (c) Economic Right (d) Fundamental Right
32. The highest law-making body of our country consisting of the Lok Sabha and the Rajya Sabha is known as  
 (a) High court (b) Supreme court (c) Parliament (d) None of these
33. When was the Sedition Act passed?  
 (a) 1870 (b) 1860 (c) 1919 (d) 1858
34. Who presided the Supreme Court?  
 (a) Subordinate (b) District court (c) Chief justice (d) All of these
35. Type of farming to meet family needs is known as:  
 (a) Subsistence (b) Mixed (c) Organic (d) None of these

**Section D**

**MAT**

36. Identify the figure that completes the pattern.  
  
 (a) (1) (b) (2) (c) (3) (d) (4)
37. Choose a figure which would most closely resemble the unfolded form of Figure (Z).  
  
 (a) (1) (b) (2) (c) (3) (d) (4)
38. How many parallelograms are there in the figure?  
  
 (a) 14 (b) 15 (c) 16 (d) 18
39. In a certain code, SOBER is written as RNADQ. How LOTUS can be written in that code?  
 (a) KNSTR (b) KMSTR (c) MPUWT (d) LMRST

40. 'Cyclone' is related to 'Anti-cyclone' in the same way as 'Flood' is related to  
(a) Devastation      (b) Havoc      (c) River      (d) Drought

**Section E**

**English**

**Read the following passage carefully and choose the correct answer: (Q. 41 – Q. 45)**

1. Harry and Annie lived a mile from town, but they went there to school every day. It was a pleasant walk down the lane and through the meadow by the pond. I hardly know whether they liked it better in summer or in winter. They used to pretend that they were travellers exploring a new country and would scatter leaves on the road so that they might find their way back again.
2. When the ice was thick and firm, they walked across the pond. But their mother did not like to have them do this unless someone was with them. "Don't go across the pond today, children, " she said as she kissed them and bade them goodbye one morning, "it is beginning to thaw", said mother.
3. "All right, mother," said Harry, not very good-naturedly because he was very fond of running and sliding on the ice. When they came to the pond, the ice looked hard and safe. "There", said he to his sister. "I knew it hadn't thawed any. Mother is always afraid we will drown. Come along, we will have a good time sliding. The school bell will not ring for an hour at least."
4. "But you promised mother," said Annie. "No, I didn't. I only said; All right and it is all right. I didn't say anything, so I can do as I like, "said Harry.
5. So they stepped on the ice, and started to go across the pond. They had not gone far before the ice gave way, and they fell into the water. A man who was at work near the shore heard the screams of the children and plunged into the water to save them.
6. Harry managed to get to the shore without any help, but poor Annie was nearly drowned before the man could reach her. Harry went home almost frozen and told his mother how disobedient he had been. He remembered the lesson learned that day as long as he lived.
41. Harry and Annie used to pretend that they were travellers exploring a new country because they felt that their pleasant journey:  
(a) Down the lane and through the meadow by the pond, will lead them to their dreamland.  
(b) To their school through the meadow by the pond, is the source of their untold happiness.  
(c) Is more important to them than going to school every day.  
(d) Explores a new way to go to a new school.
42. "Don't go across the pond today, children," she said as she kissed them, is a warning to Harry and Annie for getting them:  
(a) Careful to cross the icy pond.  
(b) Alert if they go for sliding on the ice in the pond.  
(c) Cautious lest they be drowned in the pond.  
(d) Frightened to cross the pond unless somebody was with them.

43. Harry and Annie went to school, walking down the lane and through the meadow by the pond.  
 (a) True (b) False (c) Both (d) Not sure
44. Mother of Harry and Annie liked them to practise sliding on the ice in the pond.  
 (a) True (b) False (c) Both (d) None of these
45. Synonym of the word 'explore ' is  
 (a) Inspect (b) Suggest (c) Exploit (d) Export

**Read the passage carefully and fill the gaps with the suitable answers (Q. 46 – Q. 50)**

Yesterday I (i) ..... a phone call that my father (ii) .....  
 unwell. I (iii) ..... a ticket online and (iv) ..... for Amritsar.  
 On the way, I (v) ..... a young man who offered me some biscuits.

46. (i) (a) receive (b) received (c) has received (d) will receive
47. (ii) (a) was (b) is (c) Will (d) has
48. (iii) (a)book (b) will book (c) booked (d) books
49. (iv) (a) will leave (b) leave (c) has left (d) left
50. (v) (a)met (b) meet (c) meeting (d) will meet

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