



# MACRO VISION ACADEMY, BURHANPUR

Sample Paper

Class: IX (C)

Time 2:00 Hrs.

M.M.: 100

Office Use

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

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

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

Mathematics (40)	Science (30)	So. Science (10)	English (20)	OBTAINED MARKS (100)

## Mathematics (40 Marks)

### ❖ Choose the correct answer:

10

- The number of perfect squares between 100 and 200 is  
(a) 3 (b) 4 (c) 5 (d) 6
- 6057 is divisible by  
(a) 3 only (b) 9 only (c) 3 and 9 (d) Neither 3 nor 9
- If  $2a + b = 9$  and  $ab = -4$ , then  $4a^2 + b^2$  is equal to  
(a) 97 (b) 65 (c) 25 (d) -7
- A chair marked at Rs. 9000 is available for Rs. 8250. The discount percent is  
(a) 5% (b) 6% (c) 8% (d)  $8\frac{1}{3}\%$
- A truck runs at the speed of 36 km/hr. How far does it go in 12 seconds.  
(a) 300 m (b) 72 m (c) 100 m (d) 120 m
- The two diagonals are not necessarily equal in  
(a) an isosceles trapezium (b) a rhombus  
(c) a rectangle (d) a square
- The value of  $(5^0 - 3^0) \times 2^5$  is  
(a) 0 (b) 1 (c) 32 (d) 64
- The value of  $\sqrt{1.21} - \sqrt{0.01}$  is equal to  
(a) 1 (b)  $\sqrt{1.2}$  (c) 0.81 (d) 0.99
- 52y5 is a 4-digit number and is a multiple of 9. What is the value of y  
(a) 0 (b) 2 (c) 4 (d) 6
- The volume of a cube whose total surface area is  $216 \text{ cm}^2$  is  
(a)  $36 \text{ cm}^3$  (b)  $216 \text{ cm}^3$  (c)  $220 \text{ cm}^3$  (d) None of these

❖ **Solve the following:**

➤ The ratio of two sides of a parallelogram is 3:5, and its perimeter is 48m. Find the sides of parallelogram. **2**

➤ Divide:  $x^3 - 6x^2 + 11x - 6$  by  $x^2 - 4x + 3$

**2**

➤ Find m so that  $\left(\frac{2}{9}\right)^3 \times \left(\frac{2}{9}\right)^{-6} = \left(\frac{2}{9}\right)^{2m-1}$

**2**

➤ Solve:  $\frac{3x}{4} - \frac{(x-1)}{2} = \left(\frac{x-2}{3}\right)$

**2**

❖ **Solve the following:**

➤ If 56 men can do a piece of work in 42 days. How many men will do it in 14 days?

**3**

➤ After allowing a discount of 12% on the marked price of an article. It is sold for Rs 880. Find its marked price. **3**

- In a quadrilateral ABCD, the angles A, B, C and D are in the ratio 1:2:3:4. Find the measure of each angle of the quadrilateral. **3**

❖ **Solve the following:**

- A VCR and TV were bought for Rs. 8000 each. The shopkeeper made a loss of 4% on the VCR and a profit of 8% on the TV. Find the gain or loss percent on the whole transaction. **4**

- A rectangular piece of paper  $11\text{cm} \times 4\text{cm}$  is folded without overlapping to make a cylinder of height  $4\text{cm}$ . Find the volume of the cylinder. **4**

❖ **Solve the following:**

- Find the compound interest on Rs. 1000 at the rate of 10% per annum for 18 months when interest is compounded half-yearly. **2**

- 2025 plants are to be planted in a garden in such a way that each row contains as many plants as the number of rows. Find the number of rows and the number of plants in each row. **3**

**Science (30 Marks)**

❖ **Fill in the blanks:** **2**

- Physical basis of life is\_\_\_\_\_.
- Organism in which male and female gametes are present in same organism are called \_\_\_\_\_.
- Friction is the force that opposes \_\_\_\_\_.
- 4. Time taken by a pendulum for completing one oscillations is \_\_\_\_\_.

❖ **Match the following:** **2**

**Column A**

- Insecticides
- Amoeba
- Fungus
- Anabena

**Column B**

- Algae
- Killing insects
- Protozoa
- Bread mould

❖ **Define the following:**

➤ Myopia

1

Ans: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

➤ Celestial objects

1

Ans: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

➤ Fossil fuel

1

Ans: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

➤ Tinning

1

Ans: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

❖ **Short answer type questions:**

➤ What is polymerization?

2

Ans: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

➤ What is anodizing?

2

Ans: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

➤ Write full form of LPG and CNG.

2

Ans: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

➤ What are ductless glands? Name any two.

2

Ans: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

➤ What is force and write the unit of force?

2

Ans: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

❖ **Give reason:**

➤ A dam is broad at the base. Why?

**2**

Ans: \_\_\_\_\_

\_\_\_\_\_

➤ Why are trees important for reducing noise?

**2**

Ans: \_\_\_\_\_

\_\_\_\_\_

➤ Why do plants have more and large vacuoles than animal cells?

**2**

Ans: \_\_\_\_\_

\_\_\_\_\_

❖ **Long answer type questions:**

➤ Write two functions each of endoplasmic reticulum, mitochondria & plastid?

**3**

Ans: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

➤ Draw and explains Human Ear.

**3**



Ans: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**Social Science (10 Marks)**

❖ **Answer the following in short:**

➤ Who was the last Viceroy of India? **1**

Ans: \_\_\_\_\_  
\_\_\_\_\_

➤ What is done under census? **1**

Ans: \_\_\_\_\_  
\_\_\_\_\_

➤ What is arable land? **1**

Ans: \_\_\_\_\_  
\_\_\_\_\_

➤ What is an FIR? **1**

Ans: \_\_\_\_\_  
\_\_\_\_\_

➤ Why have many Adivasis migrated to cities? **2**

Ans: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

➤ What is soil? **2**

Ans: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

➤ Name at least five major centres of the revolt of 1857. **2**

Ans: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**English (20)**

❖ **Read the passage given and answer the question that follows:**

**5**

Palem Apokpi, mother who gave birth to me  
How I hated leaving home, to be a man,  
Ten years ago. Now these hills  
Have grown on me.  
But I'm still your shy son  
With a voracious appetite,  
The boy who lost many teeth  
By emptying your larder  
When you were away. And I'm  
Also your dreamy eyed lad  
Who gave you difficult times  
During his schoolboys, running  
After every girl he met,  
even when he still wore half pants.

➤ When did the son leave the home?

- (a) One year ago                      (b) Five years ago    (c) Ten years ago    (d) Twenty years ago

➤ How did the speaker give difficult times to his mother?

- (a) By not doing his homework                      (b) By running after every girl he met  
(c) By beating the fellow school boys                      (d) By stealing away all nioney

➤ Choose a line that indicates that the speaker is talking about his childhood days.

- (a) I'm still your shy son                      (b) By emptying your larder  
(c) Your dreamy eyed lad                      (d) When he still wore half pants

➤ Why did the speaker leave his home?

- (a) To earn a living                      (b) To marry a girl  
(c) Because he stole goods                      (d) Because he was annoyed with his mother

➤ What is the meaning of the word 'voracious'?

- (a) Deadly                      (b) Big                      (c) Bad                      (d) Negative

❖ **Change into indirect speech of the given sentences:**

**3**

➤ The teacher said to Manu, "Why are you late"?

Ans: \_\_\_\_\_

➤ He said to me, "Take proper rest".

Ans: \_\_\_\_\_



