



# MACRO VISION ACADEMY, BURHANPUR

## Sample Paper

Class: IX (A)

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)		
❖	<p><b>Choose the correct answer:</b></p> <p>➤ Which of the following is a Pythagorean triplet?            (a) (2, 3, 5)            (b) (5, 7, 9)            (c) (6, 9, 1)            (d) (8, 15, 17)</p> <p>➤ The value of <math>\sqrt[3]{6 \times 36}</math> is            (a) 6                      (b) 36                      (c) 216                      (d) None of these</p> <p>➤ If <math>ab = 20</math> and <math>(a - b) = 6</math>, then the value of <math>a^2 + b^2</math> is            (a) 37                      (b) 35                      (c) 76                      (d) None of these</p> <p>➤ The deduction made on the marked price is called _____            (a) Profit                      (b) Loss                      (c) Tax                      (d) Discount</p> <p>➤ If <math>x\%</math> of 100 is 2, then value of <math>x</math> is            (a) 2                      (b) 4                      (c) 20                      (d) None of these</p> <p>➤ A quadrilateral can have            (a) 4 acute angles                      (b) 4 obtuse angles            (c) 3 obtuse angles                      (d) 2 right angles and 2 obtuse angles</p> <p>➤ The area of a rhombus whose diagonals are 10 cm and 12 cm is            (a) <math>120 \text{ cm}^2</math>                      (b) <math>125 \text{ cm}^2</math>                      (c) <math>80 \text{ cm}^2</math>                      (d) <math>60 \text{ cm}^2</math></p> <p>➤ The difference between the highest and the lowest value of observation is called            (a) Frequency                      (b) Range                      (c) Class interval                      (d) None of these</p> <p>➤ In the adjacent parallelogram, the area of the shaded region is</p>	10



➤ Find the square by using identify  $(6x^2 - 5y)^2$

**2**

❖ **Solve the following:**

➤ The present age of Anu and Raj are in the ratio 4 : 5. Eight years from now the ratio of their ages will be 5 : 6. Find their present ages.

**3**

➤ An unbiased die is thrown. What is the probability of getting:

(i) a multiple of 3      (ii) a number less than 5      (iii) a number between 3 and 6.

**3**

➤ Reema types 540 words during half an hour. How many words would she type in 6 minutes?

**3**

❖ **Solve the following:**

➤ Ramesh bought two boxes for Rs. 1300. He sold one box at a profit of 20% and the other box at a loss of 12%. If the selling price of both boxes is the same, find the cost price of each box.

**4**

➤ A milk tank is in the form of cylinder whose radius is 150cm and length is 7m. Find the quantity of milk in litres that can be stored in the tank?

**4**

❖	<p><b>Solve the following:</b></p> <p>➤ The sides of a Rectangle are in the ratio 4:5. If the perimeter is 180cm. Find its sides.</p>	<b>3</b>

	<p>➤ In the following figure ABCD and AEF G are parallelogram, if <math>\angle C = 70^\circ</math>. What is the measure of <math>\angle F</math> and <math>\angle AGF</math>.</p>	<b>2</b>										
<b>Science (30 Marks)</b>												
	<p>❖ <b>Fill in the blanks:</b></p> <p>➤ Mined coal and petroleum are _____ fuels.</p> <p>➤ A unit of pressure is _____.</p> <p>➤ Device used for protecting a tall building from lightning is called _____.</p> <p>➤ _____ is the process of making an object free from germs.</p>	<b>2</b>										
	<p>❖ <b>Match the following:</b></p> <table style="width: 100%; border: none;"> <thead> <tr> <th style="text-align: left; width: 50%;"><b>Column A</b></th> <th style="text-align: left; width: 50%;"><b>Column B</b></th> </tr> </thead> <tbody> <tr> <td>➤ Alexander Fleming</td> <td>(a) Property of substance can be drawn into wire</td> </tr> <tr> <td>➤ Malleability</td> <td>(b) Antiseptic</td> </tr> <tr> <td>➤ Edward Jenner</td> <td>(c) Property of substance can be beaten into a foil</td> </tr> <tr> <td>➤ Ductility</td> <td>(d) Penicillin</td> </tr> </tbody> </table>	<b>Column A</b>	<b>Column B</b>	➤ Alexander Fleming	(a) Property of substance can be drawn into wire	➤ Malleability	(b) Antiseptic	➤ Edward Jenner	(c) Property of substance can be beaten into a foil	➤ Ductility	(d) Penicillin	<b>2</b>
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	<p>❖ <b>Define the following:</b></p> <p>➤ Virology</p> <p>Ans: _____</p> <p>_____</p>	<b>1</b>										

	<p>➤ Calorific value</p> <p>Ans: _____</p>	<b>1</b>
	<p>➤ Biodiversity</p> <p>Ans: _____</p>	<b>1</b>
	<p>➤ Fertilization</p> <p>Ans: _____</p>	<b>1</b>
<b>❖</b>	<p><b>Short answer type questions:</b></p> <p>➤ What is organic farming?</p> <p>Ans: _____</p> <p>➤ What are antibodies?</p> <p>Ans: _____</p> <p>➤ Differentiate between a contact force and a non-contact force.</p> <p>Ans: _____</p> <p>➤ Calculate the pressure produced by force of 800N acting on an area of 2.0 m<sup>2</sup>.</p> <p>Ans: _____</p> <p>➤ What is an electroscope?</p> <p>Ans: _____</p>	<p><b>2</b></p> <p><b>2</b></p> <p><b>2</b></p> <p><b>2</b></p> <p><b>2</b></p>
<b>❖</b>	<p><b>Give reason:</b></p> <p>➤ Why do pupils dilate in darkness?</p> <p>Ans: _____</p> <p>➤ Why is virus considered as linkage between the living and the non-living?</p> <p>Ans: _____</p>	<p><b>2</b></p> <p><b>2</b></p> <p><b>2</b></p>



<p>➤ Why sodium is stored under kerosene?</p> <p>Ans: _____</p> <p>_____</p> <p>_____</p>	
<p>❖ <b>Long Answer type questions:</b></p> <p>➤ Explain physical properties of metals. (any three)</p> <p>Ans: _____</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p>	<p><b>3</b></p>
<p>➤ Draw and explain animal cell.</p> <p>Ans:</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p>	<p><b>3</b></p>

<b>Social Science (10 Marks)</b>		
❖	<b>Answer the following in short:</b>	
	➤ Where did Bahadur Shah Zafar die? Ans: _____	<b>1</b>
	➤ In which region of India was Wootz Steel produced? Ans: _____	<b>1</b>
	➤ Name two Indians who reacted against Western Education. Ans: _____	<b>1</b>
	➤ Define water scarcity. Ans: _____	<b>1</b>
	➤ What does 'rule of law' mean? Ans: _____	<b>2</b>
	➤ Name the three leading member of Radicals. Ans: _____	<b>2</b>
	➤ What is agriculture? Ans: _____	<b>2</b>
<b>English (20)</b>		
❖	<b>Read the passage given below and answer the question that follows:</b> * Serpentine queues of cars stuck in perpetual wait on jammed roads, and colony streets overflowing with squeezed in vehicles are a common sight in big cities these days. Despite the host of opportunities and facilities that big cities boast of, congested roads, long and arduous commutes, and increasing vehicular pollution are the biggest spoilers. Added to this are shrinking parking spaces, increasing parking rates and errant, irritated drivers — all of it a daily mess that threatens to wear out the charm of city life, irrespective of whether you own a	

	<p>basic two-wheeler or a sprawling SUV.</p> <p>* It is any driver’s dream today to drive on smooth and traffic free roads. But how is it possible with more personal vehicles being pushed on to the roads each year. Changing lifestyle, nuclear families, growing independence of individuals and their divergent needs have all contributed to the increase in vehicles owned per family and thereby eaten into the cities’ free spaces.</p> <p>* If we analyse it closely, there is something more to the picture. The growing number of cars and congested cities also symbolise the peak of consumerism in society. A society that thrives on the notion that one’s wealth is the measure of personal worth certainly struggles much more to keep its spaces free than others. It trains people into buying more, hoarding more and throws them into an anxious chase for symbols of wealth, even more than is needed, just so they can secure their social status. Apart from adding more to the vehicular pool and stacking gadgets, this culture does more inner damage. It simultaneously undermines an individual’s inherent value and disturbs the natural dynamics of relationships in society, making them more hierarchical and subject to power play.</p> <p>➤ What do you mean by ‘serpentine queues’? Ans: _____</p> <p>➤ What does a driver desire? Ans: _____</p> <p>➤ Name three factors responsible for the increase in vehicles. Ans: _____</p> <p>➤ What are symbols of wealth? Ans: _____</p> <p>➤ (a) Give the noun form of ‘possible’ (para 2). Ans: _____</p> <p>(b) Find the word in the passage which is opposite in meaning to the word ‘natural’ (para) Ans: _____</p>	<p>1</p> <p>1</p> <p>1</p> <p>1</p> <p>½</p> <p>½</p>
❖	<p><b>Re-arrange the following words/phrase to make a complete and correct sentence:</b></p> <p>➤ unaware/we/of/useful/are/often/facts Ans: _____</p> <p>➤ produce/food/their/photo synthesis/plants/own/by Ans: _____</p> <p>➤ get/some/she/will/for/time/me/? Ans: _____</p>	<p>3</p>

❖ Discipline leads to harmony in life whereas indiscipline leads to confusion. Prepare a speech on the topic **Importance of Discipline in Life** to be delivered in the school assembly. Use the following hints.

**4**

**Hints:** Discipline leads to harmony, Indiscipline leads to confusion and disorder, Discipline is the key to success. Self discipline is most important.

Ans:

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❖	<p>Write a letter to the editor of 'The Times of India' complaining about the nuisance created by the use of loudspeakers. You are Peeyush Sharma, a resident of sector 15, Vasundhara Enclave. Ans: _____</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p>	<b>5</b>
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❖	<p><b>Change the voice of the given sentences:</b></p> <p>➤ The police have arrested the thieves. Ans: _____</p> <p>➤ A girl from Chennai won the first prize. Ans: _____</p> <p>➤ The readers like the latest book of the writer. Ans: _____</p>	<b>3</b>
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## **Rough Work**