

	Sample Paper-I (2023-24)	
Class:	IX	
Time:	02:30 Hrs.	
M.M:	75	



MACRO
VISION ACADEMY

Personal Information

Student's Name:- _____ **Father's Name:-** _____

City:- _____ **Mobile No:-** _____ **Exam Date:-** / /2023

Studying in Class: _____ **Appearing for class:-** _____ **Board:** _____

GENERAL INSTRUCTIONS:

- All questions are compulsory.
- Section A contains 20 questions (from 1-20) of Mathematics.
- Section B contains 25 questions (from 21-45) of Science.
- Section C contains 10 questions (from 46-55) of Social Science.
- Section D contains 18 questions (from 57-73) of English.

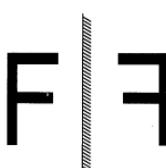
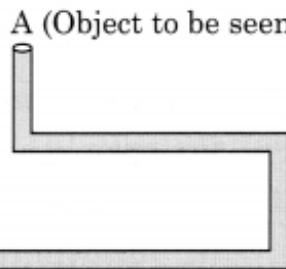
Mathematics (20)	Science (25)	So. Science (10)	English (20)	OBTAINED MARKS (75)

Section-A Mathematics

Q.N	Questions	Answers
	Answer the Following Questions.	
1.	$\frac{2}{7} - \frac{3}{6} - \frac{3}{14} =$	
2.	$-\frac{9}{11} - \frac{3}{22} \left(\frac{3}{2} - 3 \right) =$	
3.	$2\frac{1}{2} - 3\frac{3}{4} + 1\frac{1}{3} =$	
4.	$14 + (-4) 7 + 3(-10) =$	

5.	$\frac{3}{4} + 8 \left\{ -\frac{1}{2} + \frac{7}{4} \right\} + \left(\frac{-1}{2} \right) =$	
6.	$17 - (-8) + (-4) + (-8)3 =$	
7.	$5\% \text{ of } 150 =$	
8.	$63\% \text{ of } 1000 =$	
9.	Find x so that $\left(\frac{5}{3}\right)^{-5} \times \left(\frac{5}{3}\right)^{-11} = \left(\frac{5}{3}\right)^{8x}$	
10.	Shyam scored 30 marks in maths out of 120, what is the percentage of marks he got.	
11.	Subtract $2x^3 - 4x^2 + 3x + 5$ from $4x^3 + x^2 + x + 6$.	
12.	Factorise: $25x^2 - y^2$	
13.	Solve: $\frac{2x+1}{3x-2} = \frac{9}{10}$	
14.	15 boys earn Rs. 900 in 5 days, how much will 20 boys earn in 7 days?	
15.	72% of 25 students are good at mathematics. How many are not at it?	
16.	One angle of a quadrilateral is 180° and the remaining three angles are equal. Find the three equal angles.	
17.	Two opposite angles of a parallelogram are $(3x-2)^\circ$ and $(50-x)^\circ$. Find the measure of each angle of the parallelogram.	
18.	The area of the circle is 49π sq. unit, then the circumference of the circle is	
19.	If x and y varies directly as each other and $x=4$ when $y=16$. Find the value of y when $x=9$ is	
20.	Name the figure formed by the following points A(2,3), B(5,3), C(5,5) and D (2, 5).	

	Section-B Science	
	Give one word for the following:	
21.	Odd combination of smoke and fog.	
22.	Recognizable shape form by stars.	
23.	Process of splitting white light into its seven constituent colours.	
24.	The number of oscillations per second	
25.	The force exerted by the earth to pull the object towards itself	
26.	A cation has _____ charge.	
27.	Richter scale is used to express the _____ of an earthquake.	
28.	The sole of shoes and the tyres of vehicles are treaded to increase _____.	
29.	When a sperm having X-chromosome fuses with the ovum, the child born will be _____.	
30.	A tadpole develops into an adult frog by the process of _____	
	Match the Column-A with Column-B:	
	Column-A	Column-B
	Amoeba	Increases soil fertility
	Blue green algae	Symbiotic nitrogen fixing bacteria
	Prokaryotic cell	Binary fission
	Lactobacillus	Nuclear material without nuclear membrane
	Rhizobium	Fermentation of milk
31.	Amoeba	
32.	Blue green algae	
33.	Prokaryotic cell	

34.	Lactobacillus	
35.	Rhizobium	
	Answer the following:	
36.	Name the liquid substance present between nucleus and plasma membrane.	
37.	Name the process of transferring healthy seedlings from a nursery to the main field.	
38.	When we stand in front of our dressing table our left hand seems to be right and right seems to be left. Which phenomenon is responsible for this?	
39.	Which effect cause global warming?	
40.	Which effect of current causes the bulb to glow?	
	Solve the following questions.	
41.	Observe the following diagram and name the Phenomenon shown in the figure. 	
42.	Boojho planned an activity to observe an object 'A' through pipes as shown in the given figure, so that he could see objects, which he could not directly see.  How many mirrors should he use to see the object?	

43.	<p>Identify the microbes from the figure given below.</p> <p>W</p> <p>Y</p>	
44.	<p>Observe the following diagram</p> <p>A</p> <p>B</p> <p>C</p> <p>D</p> <p>E</p> <p>F</p>	<p>Identify</p> <p>B _____</p> <p>C _____</p>
45.	<p>Observe the following diagram and answer the given question</p> <p>Parts of a flame</p> <p>A</p> <p>B</p> <p>C</p> <p>Wax candle</p> <p>Which is the hottest part of the flame in the given figure of a candle.</p>	
	<p>Section-C</p> <p>Social Science</p>	
	<p>Give one word for:</p>	
46.	<p>Popular eco-friendly automobile fuel which causes less pollution than petroleum and diesel.</p>	
47.	<p>Tribal groups that lived in chottanagpur.</p>	

48.	Someone who knows and studies several languages.	
49.	Breaking up and decay of exposed rocks, by temperature changes, frost action, plants, animals and man.	
50.	Form of government in which final authority rested with the King.	
	Fill in the blank:	
51.	According to the Constitution, there are _____ organs of government.	
52.	Dalhousie implemented the Doctrine of _____	
53.	Aurangzeb died in the year _____	
54.	Natural resources can be broadly categorised into renewable and _____ resources.	
55.	Resources that are drawn from nature and used without much modifications are called _____	
	Section-D English	
	Complete the following passage (From Q. No. 56 – 58) by choosing the appropriate word given in the bracket: (landed, with, about, missed, take)	
	Jill was walking to her class slowly. She was worried _____ (56) _____ the History test she would have to _____ (57) _____ that morning. As she was reaching the classroom, a piece of paper suddenly fluttered down and _____ (58) _____ near her feet.	
56.		
57.		
58.		

	Read the passage given below and choose the correct option:
	<p>Andrew Fang is a legend in bowling. He was voted Sportsman of the Year in 2000. Andrew is only 23. He started bowling when he was nine, picking up the sport from his parents. "When I was just starting out, my family supported me by paying for my training and equipment," says the Arts undergraduate whose major is economics. Competition or not, Andrew has no problem keeping fit. "I like biking. Rain or shine, you'll find me on my mountain bike cycling for at least two hours at Bukit Timah, four times a week. It takes my mind off problems and troubles," says Andrew. Rest and recreation are as important as exercise.</p> <p>"I love sleeping," Andrew says. "When I'm preparing for tournaments, I usually sleep eight to nine hours a day." He also likes playing pool, reading a good novel or watching a show with his friends. When it comes to food, Andrew says he takes everything in moderation and stays away from fried and fatty food. He takes in more protein than the average person and tries to drink as much water as he can to prevent dehydration since he cycles so much. Because of his discipline, Andrew's working relationship with his coach has been very smooth. Andrew's priority, however, is education. "Getting my degree is my biggest wish now. After that, I can concentrate fully on professional bowling," Andrew states firmly.</p>
	Based on your understanding of the passage, choose the appropriate option:
59.	<p>Which one of the following is most important to Andrew now? It is to _____</p> <p>(a) be a professional bowler (b) graduate from university (c) be voted as Sportsman of the Year (d) pay his parents for his training and the equipment</p>
60.	<p>What does Andrew do when he is stressed?</p> <p>(a) He goes bowling. (b) He climbs up Bukit Timah Hill. (c) He eats fried and fatty food. (d) He goes cycling on his mountain bike.</p>
