 MACRO VISION ACADEMY BURHANPUR	SAMPLE PAPER-III (2025-26)		For Office Use Only
	Class:	IX	
	Time:	03:00 Hrs.	
	M.M:	100	

Personal Information

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

City:- _____ **Mobile No:-** _____ **Exam Date:-** / /2025

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

Present School Name:- _____ **Category:-** _____

Section-A			Section-B					Total (100)
Maths (15)	English (05)	Hindi (05)	Maths (25)	Science (25)	SST (10)	English (10)	Hindi (05)	

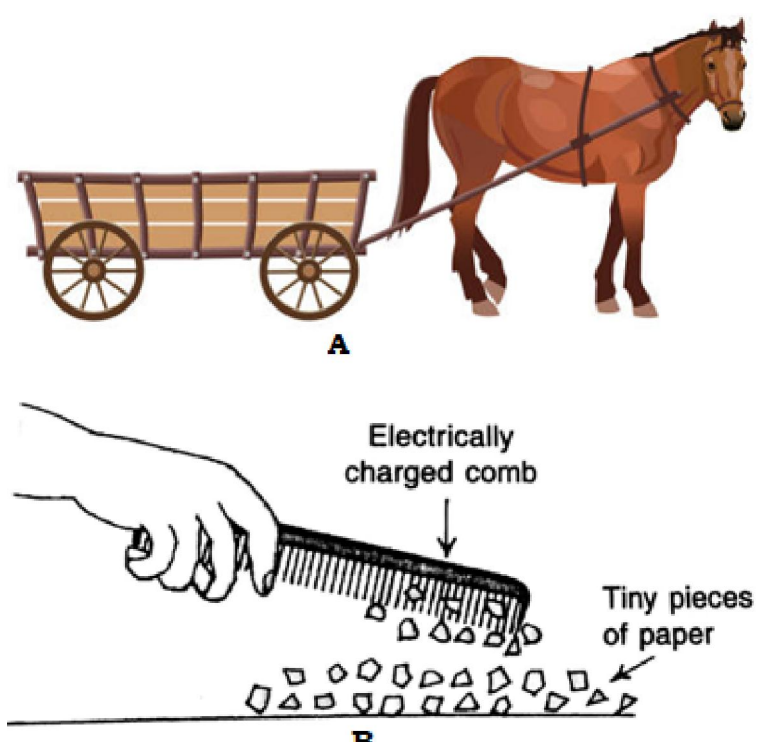
Section-A		
Mathematics (15)		
Q.No.	Questions	Answers
	Instruction:- Q. 1 – Q. 15 carry 1 mark each.	
1.	Find the LCM of 30 and 45.	90
2.	Find the value of $7(-3)(-4)-(-1)$.	85
3.	Evaluate: $\frac{3}{2} + \frac{3}{4} - \left(-\frac{1}{4}\right)$	$\frac{10}{4} = \frac{5}{2} = 2.5$
4.	The cost of 1 kg sugar is ₹ 45. Find the cost of 4 kg sugar.	₹ 180
5.	Find the prime factors of 70.	$2 \times 5 \times 7$
6.	10% of 85 is _____.	8.5
7.	Alok buys 3 copies which costs ₹ 192. Find the cost of 2 copies.	₹ 128
8.	If $x - 3 = 4x + \frac{3}{2}$, then $x =$ _____.	$x = -\frac{3}{2}$
9.	Evaluate: $124 - 182 - (-123) + (987)$	1052

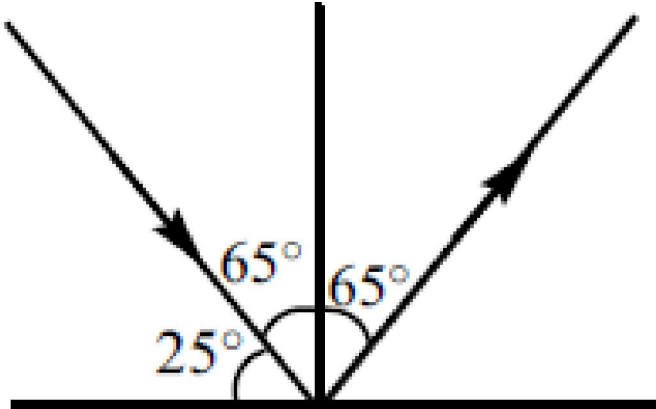

10.	Evaluate: $2.5 \times 2.5 + 7.1$	13.35
11.	Evaluate: $-2.15 \times 5 + 3$	-7.75
12.	$\frac{3}{4}$ of the salary per month is ₹ 600. What is the salary per month?	₹ 800
13.	Evaluate: $\frac{3}{2} \times \frac{16}{9} \times \left(-\frac{3}{2}\right)^2$	6
14.	If 3.7 is converted in the form of $\frac{p}{q}$, then find the value of $p + q$.	47
15.	In an exam Tanay secured 332 marks. If he secured 83% marks, find the maximum marks.	400
English (05)		
16.	Reflect on a memorable trip you took with your family. Write a descriptive paragraph about the destination, activities, and your overall experience in 150-200 words. (05 Marks)	
Ans.		

Hindi (05)		
17.	निम्नलिखित विषयों में से किसी एक विषय पर लगभग 100 शब्दों में रचनात्मक लेख लिखिए। (क) विज्ञापन और हमारा जीवन (ख) दिशाहीन विद्यार्थी वर्ग	(05 Marks)
Ans.		
Section-B		
Mathematics (25)		
	Instruction:- Q. 18 – Q. 32 carry 1 mark each.	
18.	From a rope 11 m long, two pieces of lengths $\frac{13}{5}m$ and $\frac{33}{10}m$ are cut off. What is the length of the remaining rope?	$\frac{51}{10}m$
19.	The two angles of a quadrilateral are 76° and 68° . If the other two angles are in the ratio of 5:7, then find the measure of remaining angles.	90° and 126°
20.	When a die is thrown, write the outcomes of an event of getting a number which is multiple of 3.	3, 6
21.	Find the cube root of $\frac{64}{343}$.	$\frac{4}{7}$
22.	If 52 men can do a piece of work in 35 days, how many men will do it in 14 days?	130

23.	Factors of $7x^2 - 16x + 4$ are _____ and _____.	$(x - 2)(7x - 2)$
24.	A cuboidal wooden block contains 36 cm^3 wood. If it be 4 cm long and 3 cm wide, find its height.	3 cm
25.	Find the curved surface area of cylinder whose diameter is 42 cm and height is 10 cm. $\left(\text{take } \pi = \frac{22}{7} \right)$ _____.	1320 cm^2
26.	If a box of sweets is divided among 24 children, they will get 5 sweets each. How many would each get, if the number of the children is reduced by 4?	6
27.	Find the product of $(p + q)$ and $(pq - q)$.	$p^2q - pq + pq^2 - q^2$
28.	Add the following: $5x^2 + 7y - 8$, $4y + 7 - 2x^2$ and $6 - 5y + 4x^2$.	$7x^2 + 6y + 5$
29.	Find the ratio of ₹2 to 50 paise.	4:1
30.	Statement 1 (S₁): Length of all the sides of the square are equal. Statement 2 (S₂): The diagonals of a rectangle bisect each other at right angle. (a) Only S ₁ is correct. (b) Only S ₂ is correct. (c) Both S ₁ and S ₂ are correct. (d) Both S ₁ and S ₂ are incorrect.	(a) Only S ₁ is correct.
31.	Statement 1 (S₁): Discount is a reduction given on marked price. Statement 2 (S₂): Compound interest is the interest calculated on the previous year's amount ($A = P + I$). (a) Only S ₁ is correct. (b) Only S ₂ is correct. (c) Both S ₁ and S ₂ are correct. (d) Both S ₁ and S ₂ are incorrect.	(c) Both S ₁ and S ₂ are correct.
32.	Find the height of the triangle whose base is two-third of its height and area is 225 cm^2 .	$\sqrt{675} = 15\sqrt{3} \text{ cm}$

	Instruction:- Q. 33 – Q. 37 carry 2 marks each.	
33.	A certain school has 120 teachers. If this constitutes 30% of total employee, find the number of employees in the school?	400
34.	If $x + y = 7$ and $x - y = 11$, then $x^2 - y^2 = \underline{\hspace{2cm}}$.	77
35.	The dimensions of a cuboid are in the ratio 5: 3: 1 and its total surface area is $414m^2$. Find the dimensions.	15m, 9m, 3m
36.	Two numbers are in the ratio 3:5. If their sum is 96, then the numbers are <u> </u> .	36 and 60
37.	If $a = 3$ and $b = -2$, find the values of $a^2 + b^2$.	13
Science (25)		
	Instruction:- Q. 38 – Q. 62 carry 1 mark each.	
38.	Name the process of rearing Of honey bee on large scale.	Apiculture
39.	Name the bacteria causing Botulism a food poisoning disease.	Clostridium botulinum
40.	A greyish black substance obtained from coal contains 98% of carbon. Name this substance.	Coke
41.	A gun is fired in the air at a distance of 660m from a person. He hears the sound of the gun after 2 sec. What is the speed of the sound?	330m/s
42.	Which type of mirror forms both real and virtual image?	Concave
	Fill in the blank.	
43.	<u> </u> is an electronic device which starts emitting light when very weak current flows through it.	LED
44.	A body is acted upon by two forces of 200 Newton and 300 Newton in the same direction, <u> </u> is the resultant force acting on it	500N
45.	<u> </u> are the chemicals used to control insects.	Insecticides
46.	<u> </u> is the device used to protect a high rise building against lightning	Lightning conductor/rod

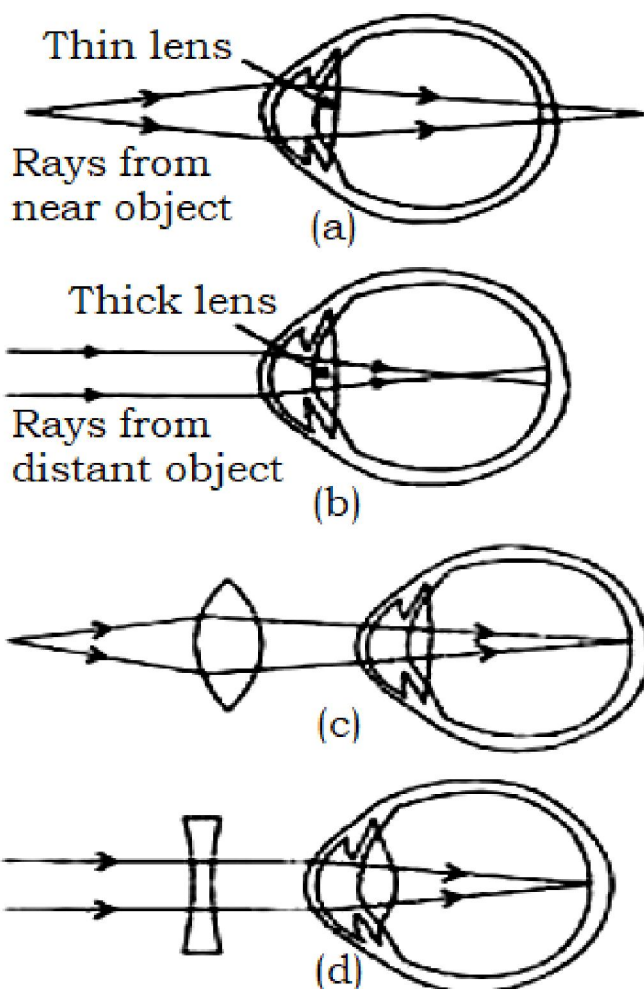
47.	The period of Milk production between the birth of a young one and the next pregnancy of the animal is called _____.	Lactation period.
Write T for True & F for False. (Q.48-Q.49)		
48.	A machine called combine is used both for harvesting and threshing.	True
49.	Peat has the maximum carbon content.	False
Give one word for:		
50.	Which structure in the eye provides most of the refraction?	Cornea
51.	Which gas is released at the cathode during the electrolysis of water?	Hydrogen
52.	In _____ the storing of the food is done at a temperature of 0°C to 5°C, whereas _____ is used to store food at -18°C of temperature.	Refrigeration., Freezing
53.	Leaves and fruits fall to the ground when they get detached from a plant. Which forces is acting on it	Gravitational force
54.	Which nutrient deficiency is responsible for Beri-Beri?	Vitamin B
Solve the following questions.		
55.	<p>Name the type of force applied on objects shown in figure labelled as A,B, C?</p>  <p>Diagram A: A horse pulling a wooden cart. The force applied is contact force.</p> <p>Diagram B: A hand holding an electrically charged comb near tiny pieces of paper. The force applied is electrostatic force.</p>	<p>A = Contact force force</p> <p>B= Electrostatic force force.</p>

56.	<p>Observe the figure, find the angle between incident ray and reflected ray?</p> 	130*						
57.	<p>Which of the following options describe both the statements given below?</p> <p>I. Statement: A place where the natural environment is strictly protected and no human interference is allowed.</p> <p>II. Statement: A place that conserves the ecosystem, including flora, fauna, and landscapes, with limited tourism and research permitted.</p> <table border="1" data-bbox="217 1099 994 1261"> <thead> <tr> <th>Option 'a'</th><th>Option 'b'</th><th>Option 'c'</th></tr> </thead> <tbody> <tr> <td>National Park</td><td>Biosphere Reserve</td><td>Wildlife Sanctuary</td></tr> </tbody> </table>	Option 'a'	Option 'b'	Option 'c'	National Park	Biosphere Reserve	Wildlife Sanctuary	Option b : National park
Option 'a'	Option 'b'	Option 'c'						
National Park	Biosphere Reserve	Wildlife Sanctuary						
58.	<p>Study the diagram of a match stick burning and identify the type of combustion shown in it?</p> 	Rapid combustion						

59.

Which of the following ray diagrams shown below shows respectively the short sightedness condition and its correctness by using a lens?

Option : b and d



Case Study: Based on the given information, answer the following questions.

Our atmosphere has 78% nitrogen gas. Nitrogen is one of the essential constituent of all living organism as a part of protein, chlorophyll, Nucleic acids and vitamins. The atmospheric nitrogen cannot be taken by plants and animals. Certain bacteria and blue green algae present in the soil fix nitrogen from the atmosphere and convert it into the compounds of nitrogen.

Ones nitrogen is converted into these usable compounds. It can be utilised by plants from soil through their root system. Nitrogen is then used For the synthesis of plants Proteins and other compounds Animals feeding on plants get these proteins and soil Other nitrogen compounds when plants and animals die bacteria and fungi present in the soil convert the nitrogenous waste into nitrogenous compounds to be used by plants again certain other bacteria convert some part of them to nitrogen gas which goes back into the atmosphere as a result the percentage of nitrogen in that atmosphere remains more or less constant.

60.	Name the bacteria which can fix atmospheric nitrogen?	Rhizobium
61.	Name two microorganisms which live in symbiotic association in Lichen?	Algae and fungi
62.	Name the process by which the amount of nitrogen remains same in the atmosphere?	Nitrogen cycle
SST (10)		
	Instruction:- Q. 63 – Q. 72 carry 1 mark each.	
63.	What is a resource developed through human efforts?	Human-made
64.	Which vegetation is found in hot and humid regions?	Tropical rainforest
65.	What is the black, viscous liquid used as fuel?	Crude oil
66.	What is the primary occupation in rural areas?	Agriculture
67.	Which type of industry processes food?	Food processing
68.	What is the study of population called?	Demography
69.	Who is called the architect of the Indian Constitution?	Ambedkar
70.	What is the separation of religion from the state called?	Secularism
71.	What system ensures equality in law making?	Democracy
72.	Who enforces laws in India?	Police
English (10)		
	Instruction:- Q. 73 – Q. 82 carry 1 mark each.	
	Read the passage carefully:	
	<p style="text-align: center;">The Impact of Technology on Education</p> <p>Technology has revolutionised the education sector in recent years. The internet, interactive whiteboards, online courses, and educational apps have transformed the way students learn. On one hand, technology provides access to a wealth of information, making learning more engaging and interactive. Students can access resources from around the world, collaborate with peers online, and even attend virtual classrooms. This allows for personalised learning, where students can progress at their own pace.</p> <p>However, the rapid shift towards digital learning has its drawbacks. Not all students have access to the latest technology, which can create a gap in learning opportunities. Moreover, excessive screen time can lead to health issues such as eye strain and poor posture. There is also a concern that technology might make students overly dependent on devices, reducing their critical thinking and problem-solving abilities. Therefore, while technology can enhance education, it is important to strike a balance and ensure that it supplements, rather than replaces, traditional teaching methods.</p>	

	Based on your understanding of the passage, choose the appropriate option:	
73.	What is one major benefit of technology in education? (a) It reduces the need for teachers. (b) It makes learning more engaging and interactive. (c) It eliminates the need for textbooks. (d) It encourages students to work alone.	(b) It makes learning more engaging and interactive.
74.	What is a potential drawback of using technology in education? (a) Students become more creative (b) It can create a gap in learning opportunities (c) Students lose interest in learning (d) It reduces screen time	(b) It can create a gap in learning opportunities
75.	What health issue is associated with excessive screen time? (a) Improved eyesight (b) Back pain (c) Eye strain (d) Increased focus	(c) Eye strain
76.	What is the suggested approach towards technology in education? (a) To use it as a replacement for traditional methods (b) To balance technology with traditional teaching (c) To avoid using technology entirely (d) To let technology control the learning process	(c) To balance technology with traditional teaching
77.	How can technology benefit students in learning? (a) By making learning slower (b) By offering personalised learning (c) By making students more dependent (d) By reducing collaboration among students	(c) By offering personalised learning
	Fill in the blanks in the paragraph given below with the help of options that follow. The teacher (78) _____ the students to read the chapter before the next class. He (79) _____ the instructions carefully, and then (80) _____ the students to raise their hands if they had any questions. Most of the students (81) _____ their notes, while a few (82) _____ looking out of the window.	
78.	(a) will instruct (c) had instructing	(b) instructed (d) instructing

79.	(a) explained (c) explaining	(b) explains (d) is explaining	(a) explained
80.	(a) asked (c) asks	(b) was asking (d) will ask	(a) asked
81.	(a) take (c) took	(b) were taking (d) takes	(c) took
82.	(a) is (b) were (c) had (d) will	(a) were	
Hindi (05)			
Instruction:- Q. 83 – Q. 87 carry 1 mark each.			
निम्नलिखित वाक्यों को शुद्ध रूप में लिखिए।			
83.	वह पानी से पौधों को सींचता हैं।	वह पौधों को सींचता है।	
84.	सुदामा पक्के कृष्ण के मित्र थे।	सुदामा कृष्ण के पक्के मित्र थे।	
निम्नलिखित शब्द संबंधी अशुद्धियों को सुधार कर लिखिए।			
85.	श्रीमति	श्रीमती	
86.	उपलक्ष	उपलक्ष्य	
87.	आर्शिवाद	आशीर्वाद	

Rough Work