 MACRO VISION ACADEMY BURHANPUR	Sample Paper-I (2026-27)		For Office Use Only
	Class:	XI Commerce	
	Time:	03:00 Hrs.	
	M.M:	80	

Personal Information

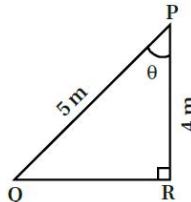
Student's Name:- _____ Father's Name:- _____

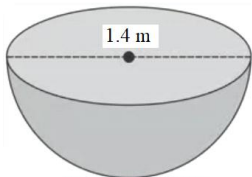
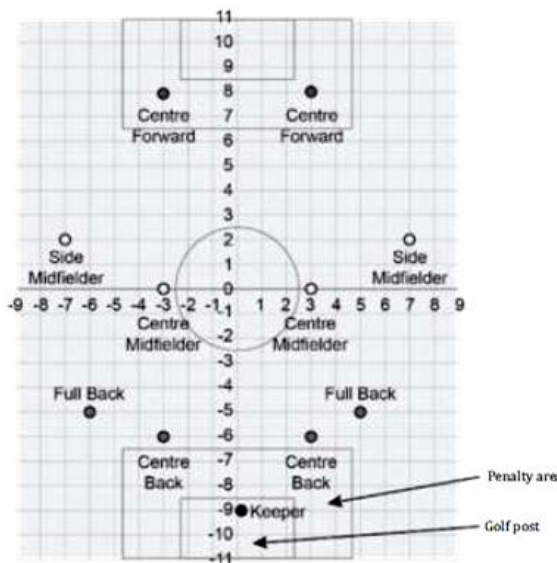
City:- _____ Mobile No:- _____ Exam Date:- / /2026

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

Present School Name:- _____ Category:- _____

Mathematics (25)	English (20)	So. Science (20)	MAT (15)	Total (80)	Remark

	Mathematics (20)	M.M
	Choose the correct answer. (Q. 1 to 5)	
1.	If HCF (a, b) = 18 then LCM (a, b) = is not possible. (a) 36 (b) 72 (c) 48 (d) 108	1
2.	If roots of the equation $6x^2 - 13x + m = 0$ are reciprocal of each other then value at m is _____ (a) $\frac{13}{6}$ (b) $-\frac{13}{6}$ (c) -6 (d) 6	1
3.	If $17x + 23y = 40$ and $23x + 17y = 80$, then $x + y = \dots\dots\dots$ (a) 120 (b) 40 (c) 3 (d) 80	1
4.	$\frac{\sin^2 60^\circ}{1 - \cos^2 60^\circ} + \frac{\operatorname{cosec}^2 60^\circ}{1 + \cot^2 60^\circ} =$ (a) 1 (b) 2 (c) $\sqrt{3}$ (d) 0	1
5.	<p>A ladder is placed along a wall such that its upper end is touching the wall at 4m high. The length of the ladder is 5m. Then the foot of the ladder is _____ m away from the ground.</p>  <p>(a) 3 (b) 4 (c) 5 (d) 6</p>	1

	Fill in the Blank. (Q. 6 to 12)	
6.	$n = 2^3 \times 3^4 \times 5^4 \times 7$ then the number of zero of the end of n is _____.	1
7.	α and β are zeroes of polynomial $x^2 + x - \frac{1}{2}$ then $\frac{1}{\alpha} + \frac{1}{\beta} =$ _____.	1
8.	The length of the median in an equilateral triangle is $\sqrt{3} \text{ cm}$, then the measure of its side is _____.	1
9.	If tangents PA and PB from a point P to a circle with centre O are inclined to each other at angle 80° . Then $\angle POA =$ _____.	1
10.	The length of the minute hand of a clock is 14 cm. The area swept by the minute hand from 2 pm to 11 pm on the circular clock is _____.	1
11.	The mean of all factors of 12 is _____.	1
12.	_____ is the probability of an event that there does not have 53 Sunday in leap year.	1
	Answer the questions based on given information. (Q. 13 to 16) A table in restaurant is in the shape of a hemisphere. <div style="text-align: center;">  </div>	
13.	What is the surface area of the table top? (a) $0.49\pi \text{ m}^2$ (b) $0.98\pi \text{ m}^2$ (c) $1.479\pi \text{ m}^2$ (d) 1.54 m^2	1
14.	The table is made of wood. What is the volume of the wood used? (a) $0.343\pi \text{ m}^3$ (b) 0.718 m^3 (c) $0.457\pi \text{ m}^3$ (d) $0.829\pi \text{ m}^3$	1
	Ronit is the captain of his school football team. He has decided to use a 4-4-2-1 formation in the next match. The figure below shows the position of the players in a 4-4-2-1 formation on a coordinate grid. <div style="text-align: center;">  </div> <p>One square box represents 1 square unit.</p>	

15.	Which of the following coordinates represents the position of the goalkeeper? (a) (9, -9) (b) (0, 9) (c) (-9, 0) (d) (0, -9)	1
16.	What is the distance between the two centre forward positions in Ronit's plan? (a) 3 units (b) 6 units (c) $5\sqrt{2}$ units (d) 16 units	1
Subjective Type Questions (Q. 17 to 21)		
17.	Find the value of k for the following quadratic equation, so they have two equal roots: $x^2 - (3x - 2)x + 2k = 0$	1
18.	Places A and B are 100 km apart on a highway. One car starts from A and another from B at the same time. If the cars travel in the same direction at different speeds, they meet in 5 hours. If they travel towards each other, they meet in 60 minutes. What are the speeds of the two cars?	1
19.	On his birthday Prakhhar distributes cake of length 50 cm, width 25 cm and height 10 cm equally among his 50 friends, then how much cake each friend will get?	1
20.	Find the area of a square inscribed in a circle of radius 8 cm.	1
21.	Evaluate: $\frac{5\cos^2 60^\circ + 4\sec^2 30^\circ - \tan^2 45^\circ}{\sin^2 30^\circ + \cos^2 30^\circ}$	1
Case Based (Q. 22 to 25): Aahana being a plant lover decides to convert her balcony into beautiful garden full of plants. She bought few plants with pots for her balcony. She placed the pots in such a way that number of pots in the first row is 2, second row is 5, third row is 8 and so on. Based on the above information, solve the following questions.		
22.	Find the number of pots placed in the 10th row.	1
23.	Find the difference in the number of pots placed in 5th row and 2nd row.	1
24.	If Aahana wants to place 100 pots in total, then find the total numbers of rows formed in the arrangement.	1
25.	If Aahana has sufficient space for 12 rows, then how many total number of pots are placed by her with the same arrangement?	1
English (20)		
Read the following passage. 1. Modern civilization has long equated progress with technological advancement. Faster machines, smarter algorithms, and interconnected systems are routinely celebrated as signs of human evolution. Yet, as humanity races forward on the wheels of innovation, an unsettling question arises: <i>Has progress improved the human condition, or merely transformed the form of our discontent?</i> 2. At the heart of this inquiry lies a paradox. Technology, though neutral in its essence, is rarely neutral in its impact. A smartphone may connect people across continents yet isolate them in a room full of friends. Artificial intelligence can streamline industries but also displace millions of workers. Progress, it seems, is often double-edged — solving one problem while creating several more.		

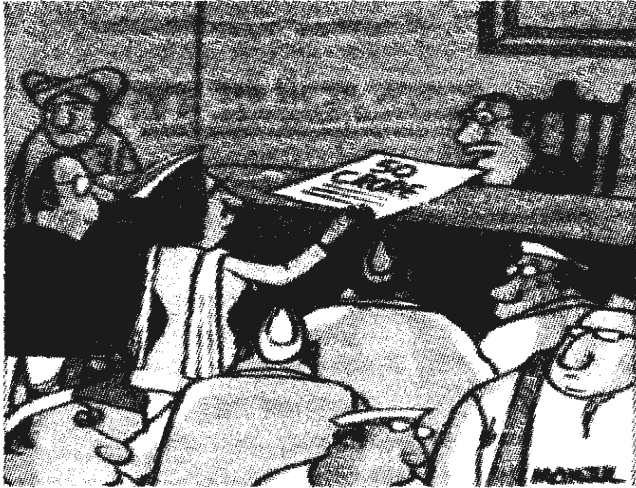
	<p>3. Philosophers and thinkers have long warned against the uncritical embrace of technological advancement. In his critique of modernity, German philosopher Martin Heidegger cautioned that technology might reduce the world to a “standing reserve” — a stockpile of resources to be used, rather than a space to be respected. When efficiency becomes the ultimate value, we risk losing touch with the very qualities that make us human: patience, reflection, empathy, and wonder.</p> <p>4. Ironically, the more we control our environment, the less control we may have over ourselves. The algorithms that personalize our news feeds also narrow our perspectives, feeding us content that aligns with existing beliefs and silencing dissenting voices. In such an echo chamber, the illusion of autonomy thrives, while authentic freedom diminishes.</p> <p>5. Furthermore, the psychological toll of constant connectivity is increasingly evident. Anxiety, burnout, and attention disorders have surged, particularly among younger generations. The pursuit of speed and productivity has rendered stillness almost subversive. Silence is now an interruption, not a space for contemplation.</p> <p>6. This is not to romanticize the past or reject technological innovation. Indeed, progress has brought undeniable benefits — eradicating diseases, democratizing information, and improving living standards for many. But the challenge lies not in the march of technology itself, but in our inability to question its direction, pace, and purpose.</p> <p>7. What is needed is a more nuanced definition of progress — one that includes ethical foresight, psychological wellbeing, and ecological balance. A civilization cannot be deemed advanced if it excels in computation but fails in compassion, if it reaches the stars but neglects the soul.</p> <p>8. To progress, perhaps, is not simply to move forward, but to move wisely.</p>	
26.	<p>What is the central paradox explored in the passage?</p> <p>(a) That technology is inherently evil but widely embraced</p> <p>(b) That progress often simultaneously solves and creates problems</p> <p>(c) That innovation always leads to emotional wellbeing</p> <p>(d) That speed equals depth of thought</p>	1
27.	<p>Which of the following best reflects the tone of the passage?</p> <p>(a) Technophobic and alarmist (b) Romantic and nostalgic</p> <p>(c) Analytical and cautionary (d) Satirical and dismissive</p>	1
28.	<p>Which line most clearly introduces the main philosophical theme?</p> <p>(a) “Modern civilization has long equated progress with technological advancement.”</p> <p>(b) “What is needed is a more nuanced definition of progress...”</p> <p>(c) “Ironically, the more we control our environment, the less control we may have over ourselves.”</p> <p>(d) “Silence is now an interruption, not a space for contemplation.”</p>	1

29.	Which of the following best summarizes the author’s view of technology? (a) Technology is the sole cause of modern problems. (b) It should be avoided to preserve traditional values. (c) Its benefits must be balanced with ethical and emotional awareness. (d) Only ancient societies truly understood progress.	1																														
30.	In the context of the passage, what does “echo chamber” metaphorically represent? (a) A place of harmony and agreement (b) A system of intellectual isolation (c) A gathering of intellectuals (d) A place where new ideas flourish	1																														
<p>Read the following passage.</p> <p>India overtook China in 2023 to become the world’s most populous country, with a population of over 1.43 billion. While population growth is often seen as a burden, demographers argue that if managed wisely, it can become a demographic dividend — a phase when the working-age population is larger than the dependent population (children and elderly).</p> <p>According to the Ministry of Statistics, over 67% of India’s population is in the working-age group (15–64 years), providing a potential boost to productivity, innovation, and economic growth. However, capitalizing on this demographic window requires strong policies in education, skill development, healthcare, and job creation. The table below shows population indicators from selected Indian states in 2025:</p> <table><tr><th>State</th><th>Population (millions)</th><th>Literacy Rate (%)</th><th>Unemployment Rate (%)</th><th>% Under 25 Years</th></tr><tr><td>Uttar Pradesh</td><td>248.5</td><td>74.0</td><td>6.9</td><td>55</td></tr><tr><td>Kerala</td><td>36.7</td><td>96.2</td><td>5.3</td><td>34</td></tr><tr><td>Bihar</td><td>141.2</td><td>71.8</td><td>9.1</td><td>60</td></tr><tr><td>Tamil Nadu</td><td>82.9</td><td>91.3</td><td>4.2</td><td>39</td></tr><tr><td>Rajasthan</td><td>95.6</td><td>69.1</td><td>7.5</td><td>51</td></tr></table> <p>Despite high youth percentages in states like Bihar and Uttar Pradesh, Unemployment and low literacy rates prevent full economic utilization.</p> <p>Conversely, Kerala, with high literacy and healthcare access, has a more mature population and lower youth percentage, indicating its demographic dividend is tapering off.</p> <p>Demographic experts warn that if the working-age population remains underutilized, India may face a demographic disaster, characterized by rising unemployment, social unrest, and pressure on urban infrastructure.</p> <p>Moreover, interstate disparities in education and employment access threaten national cohesion.</p> <p>India’s ability to turn its numbers into strength depends not just on population size, but on human capital quality — health, skills, and education. With the right investments, India can lead the world not only in numbers but in innovation and development.</p>			State	Population (millions)	Literacy Rate (%)	Unemployment Rate (%)	% Under 25 Years	Uttar Pradesh	248.5	74.0	6.9	55	Kerala	36.7	96.2	5.3	34	Bihar	141.2	71.8	9.1	60	Tamil Nadu	82.9	91.3	4.2	39	Rajasthan	95.6	69.1	7.5	51
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31.	Based on the passage, which factor most directly influences the ability to benefit from a demographic dividend? (a) Urbanization (b) Technological advancement (c) Quality of human capital (d) Fertility rates	1
32.	What does the relatively low percentage of youth in Kerala suggest about its demographic trajectory? (a) It is entering the dividend phase. (b) Its demographic dividend is ending. (c) Kerala has high birth rates. (d) Kerala is experiencing rural migration	1
33.	Which of the following best explains why India's large youth population may not automatically lead to economic growth? (a) Youth are less likely to migrate (b) Working-age people are less productive (c) Lack of jobs, skills, and education (d) Overdependence on agriculture	1
34.	Which of these interpretations best describes the contrast between Kerala and Bihar? (a) Bihar has better education, Kerala has more youth. (b) Kerala has invested in human capital; Bihar has youth but lacks infrastructure. (c) Bihar is wealthier than Kerala. (d) Kerala faces higher unemployment than Bihar.	1
35.	If India continues to neglect youth skilling, what is the most probable outcome? (a) Increased international migration (b) Rising unemployment and social unrest (c) Higher birth rates (d) GDP growth will accelerate	1
Choose the correct answer. (Q. 36 to 40)		
36.	Tenses: Identify the correctly formed sentence in the past perfect continuous tense: (a) She had been working there since five years. (b) She had been working there for five years before she left. (c) She has been working there for five years before she left. (d) She had worked there since five years before she left.	1
37.	Subject-Verb Agreement: Choose the sentence with correct subject-verb agreement involving collective nouns: (a) The committee have decided to postpone the meeting. (b) The committee was divided in their opinion. (c) The committee are meeting tomorrow. (d) The committee have been meeting regularly.	1
38.	Reported Speech: Change to reported speech: She said, "If I had studied harder, I would have passed the exam." (a) She said that if she had studied harder, she would have passed the exam. (b) She said that if she studied harder, she would pass the exam. (c) She said that if she had studied harder, she will have passed the exam. (d) She said that if she studied harder, she would have passed the exam.	1

39.	<p>Modals:</p> <p>Select the sentence with correct use of modals to express probability in the past:</p> <p>(a) He must be finished the work by now. (b) She could have taken the wrong train. (c) They might to have missed the bus. (d) He should be went home earlier.</p>	1
40.	<p>Determiners:</p> <p>Choose the correct sentence with appropriate use of quantifiers and articles:</p> <p>(a) Few of the information is accurate. (b) Much of the people have agreed to the plan. (c) Several of the students have completed their assignments. (d) Little of the books were useful for the research.</p>	1
41.	<p>You are Rohan/Richa, a student of City High School, Delhi. You are disturbed by the growing poverty in the country. Write to express concern with suggesting measures such as employment schemes, skill training and government-community collaboration.</p> <p style="text-align: center;">OR</p> <p>You are Aarav/Aarohi, a student of DAV Public School, Chandigarh. Write to express your concern over unequal access to quality education with suggesting reforms such as affordable schools, digital learning, and rural education drives.</p>	5
So. Science (20)		
Choose the correct answer. (Q. 42 to 45)		
42.	<p>A student reads that "India has a three-tier system of government: Union, State, and Local."</p> <p>Which feature of federalism does this illustrate?</p> <p>(a) Separation of Judiciary and Legislature (b) Division of powers among different levels (c) One-party dominance (d) Parliamentary supremacy</p>	1
43.	<p>The Civil Rights Movement in the USA fought against racial discrimination. If a similar movement happens in India, under which Fundamental Right will people seek justice?</p> <p>(a) Right to Equality (b) Right to Freedom (c) Right against Exploitation (d) Right to Constitutional Remedies</p>	1
44.	<p>A company prefers hiring only male candidates for managerial posts. Which form of inequality is this?</p> <p>(a) Religious inequality (b) Caste inequality (c) Gender inequality (d) Economic inequality</p>	1
45.	<p>A student notices that in India, parties need to be recognized by the Election Commission to contest elections with a common symbol.</p> <p>This condition is linked with which role of political parties?</p> <p>(a) Formation of government (b) Role in opposition (c) Regulation and recognition by law (d) Shaping public opinion</p>	1

	<p>Read the given text and answer the following questions:</p> <p>Democracy is often criticized for being slow and inefficient. It cannot guarantee economic equality or completely eliminate corruption. Yet, democracy is preferred because it upholds individual dignity, allows citizens to choose and change rulers, and promotes political equality. It also provides space for discussion, debate, and peaceful resolution of conflicts.</p> <p>This makes democracy better than any other form of government, even with its limitations.</p>	
46.	<p>Which of these is not an outcome of democracy?</p> <p>(a) Dignity of individuals (b) Political equality (c) Complete economic equality (d) Space for discussion</p>	1
47.	<p>Why do people prefer democracy?</p> <p>(a) It ends all corruption (b) It respects individual dignity and equality (c) It avoids all debates (d) It makes quick decisions</p>	1
48.	Write one reason why democracy is better than dictatorship.	1
	<p>Read the given text and answer the following questions:</p> <p>The Indian economy is divided into three sectors: primary (agriculture, mining), secondary (manufacturing), and tertiary (services like transport, banking, IT). At the time of independence, most people worked in the primary sector. Over time, production in the secondary and tertiary sectors has grown much more. Today, the service sector contributes the highest share of GDP in India, but still, the majority of people are employed in the primary sector. This shows the problem of underemployment—where people work but are not fully utilized.</p>	
49.	<p>Which sector contributes the highest to India's GDP today?</p> <p>(a) Primary (b) Secondary (c) Tertiary (d) None</p>	1
50.	<p>The problem of underemployment is most common in—</p> <p>(a) IT sector (b) Agriculture sector (c) Banking sector (d) Industries</p>	1
51.	What is underemployment?	1
52.	<p>Assume there are four families in a country. The average per capita income of these families is Rs. 5000. If the income of three families is Rs. 4000, Rs. 7000 and Rs. 3000 respectively, what is the income of the fourth family?</p> <p>(a) Rs 7,500 (b) Rs 3,000 (c) Rs 2,000 (d) Rs 6,000</p>	1
53.	<p>Which statement is true for secularism/secular state?</p> <p>(a) Recognizes every religion and gives due importance to every religion. (b) It is based on the idea that religion is the sole basis of social community. (c) Secular state has its official religion. (d) No official religion for the secular state.</p>	1

54.	Banks keep only a small proportion of their deposits as cash with themselves and the major portion of the deposits is used to _____ (a) Invest in the market. (b) Extend loans. (c) Distribute among the people. (d) Give loans to the government.	1
55.	What is meant by globalisation?	1
56.	Why is money called a medium of exchange?	1
57.	Study the given picture and answer the question.  Which of the following challenges are being highlighted in the given cartoon? (a) Lack of internal democracy (b) Dynastic succession (c) Money and muscle power (d) No meaningful choice.	1
58.	What is meant by organised sector?	1
59.	The activities in primary, secondary and tertiary sectors are _____.	1
60.	What do you mean by decentralization?	1
61.	MNREGA 2005 in India provides right to work for every Indian's for minimum of _____ days a year.	1
MAT (15)		
Solve the question based on general intelligence. (Q. 62 to 76)		
62.	A is the mother of B. C is the father of B. D is the brother of C. How is D related to A? (a) Brother (b) Brother-in-law (c) Uncle (d) Cousin	1
63.	R is the son of P. Q is the sister of R. S is the mother of Q. How is P related to S? (a) Husband (b) Brother (c) Father (d) Cousin	1
64.	In a code, FLOWER is written as GMPXFS. How is GARDEN written? (a) HBSEFO (b) HBSDOM (c) HBSDOO (d) HBSFEM	1
65.	If COLD is written as DPME, and WARM is written as XBSN, then how will HEAT be written? (a) IEBU (b) IFBU (c) IEBV (d) HFBT	1
66.	A man walks 4 km North, then 3 km East, then 4 km South. How far and in which direction is he from the starting point? (a) 3 km East (b) 3 km West (c) 5 km North-East (d) 7 km East	1

67.	A boy walks 6 km West, then 8 km South, then 6 km East. How far is he from the starting point? (a) 2 km (b) 6 km (c) 8 km (d) 10 km	1
68.	7, 14, 28, 56, ____ (a) 84 (b) 100 (c) 112 (d) 120	1
69.	2, 5, 10, 17, 26, ____ (a) 34 (b) 35 (c) 37 (d) 38	1
70.	Choose the alternative which is closely resembles the mirror image of the given combination. TARAIN1014A (1) AƆ101NIARAL (2) A1014NIARAT (3) A1014TARAIN (4) AƆ101NIARAT (a) 1 (b) 2 (c) 3 (d) 4	1
71.	I am always in front of you but can't be seen. What am I? (a) Shadow (b) Future (c) Mirror (d) Air	1
72.	The more you take from me, the bigger I get. What am I? (a) Hole (b) Book (c) Balloon (d) Bag	1
73.	Statements: All dogs are animals. All animals are living beings. Conclusions: I. All dogs are living beings. II. All living beings are dogs. (a) Only I follows (b) Only II follows (c) Both follow (d) Neither follows	1
74.	Statements: Some pens are pencils. All pencils are erasers. Conclusions: I. Some pens are erasers. II. All erasers are pens. (a) Only I follows (b) Only II follows (c) Both follow (d) Neither follows	1
75.	In a row of 40 students, Ramesh is 12th from the left and Suresh is 15th from the right. How many students are between them? (a) 12 (b) 13 (c) 14 (d) 15	1
76.	In a class, Meena ranks 17th from the top and 29th from the bottom. How many students are there in the class? (a) 45 (b) 46 (c) 47 (d) 48	1
