

SAM	PLE PAPER-I (2025-26)	For Office
Class:	X	Use Only
Time:	03:00 Hrs.	
M.M:	100	

Personal Information

Student's Name:	Father's Name:				
City:	Mobile No:	Exam Date:-	1	/2025	
Studying in Class:-	Appearing for class:	Board:			
Present School Name:		Category:			

	Section-A			Section-B			Total	
Maths (15)	English (05)	Hindi (05)	Maths Science SST English Hindi (20) (30) (10) (10) (05)				(100)	

	Section-A					
	Mathematics (15)					
Q.No.	Questions	Answers				
	Instruction:- Q. 1 - Q. 15 carry 1 mark each.					
1.	Find the LCM and HCF of 80 & 25.	LCM = 400, HCF = 5				
2.	Evaluate: $\frac{1}{4} - \frac{8}{3}$	-29/12				
3.	Convert the given fraction $\frac{1552}{5}$ into decimal form.	310.4				
4.	Evaluate: $2 \times [48 \div 12] - 8 - 2 =$	-2				
5.	25% of 800 is	200				
6.	If $x-3=4x+\frac{3}{2}$, then $x =$.	-3/2				
7.	The cost of 10 notebooks is ₹ 300. Find the cost of 7 notebooks.	210				
8.	If the price of 5 kg potato is ₹ 150. Find the cost of 24 kg potato.	₹ 720				
9.	In an exam Tanay secured 332 marks. If he secured 83% marks, find the maximum marks.	400				

10.	Evaluate: $22 - [8 + 7 \{7 - 3(7 - 2)\} \div 8]$	21
11.	Evaluate: $\frac{2}{5} + \frac{6}{7} - \frac{3}{2}$	-17/70
12.	Meeta saves ₹ 4000 from her salary. If this is 10% of	₹ 40,000
	her salary. What is her actual salary?	
13.	A pack of 120 soaps cost ₹ 720. Find the cost of	₹ 72
	12 soaps.	
14.	If $x-9=2(2x+3)+x$, then $x=$	-15/4
15.	Evaluate: $-1\frac{2}{3} + 2\frac{1}{6} - 3\frac{2}{3}$	-19/6
	English (05)	
16.	Write a short paragraph on The Importance of time-man	agement.'
	(80-100 words)	(05 Marks)
Ans.		

	Hindi (05)	
17.	निम्नलिखित विषयों में से किसी एक विषय पर लगभग 100 शब्दों में रचनात्मक लेख वि	लेखिए। (05 Marks)
	(क) संगति	
	(ख) सादा जीवन उच्च विचार	
Ans.		
	Section-B	
	Mathematics (20)	
	Instruction:- Q. 18 - Q. 32 carry 1 mark each.	
18.	What will be the quotient when $x^3 - 3x^2 - 12x + 19$ is	x - 4
	divided by $x^2 + x - 6$.	
19.		$3-2\sqrt{2}$
	Evaluate: $\frac{1}{3+2\sqrt{2}}$	
20.	If $a^2 + b^2 + c^2 = 250$ and $ab + bc + ca = 3$, find $a + b + c$.	±16

21.	The distance of the point $P(4,3)$ from the origin is	5 unit
22.	If $x = 2k-1$ and $y = k$ is a solution of the equation	<i>k</i> = 10
	3x-5y-7=0, find the value of k .	
23.	The taxi fare in a city is as follows. For the first	5x - y + 3 = 0
	kilometre, the fare is Rs. 8, for the subsequent distance	
	it is Rs. 5 per km. Taking the distance covered as x km	
	and total fare as y , write a linear equation for this	
	information.	
24.	Two opposite angles of a parallelogram are $(3x-2)^{\circ}$	x = 13 and four angles of
	and $(50-x)^{\circ}$. Find the measure of each angle of the	parallelogram are
		370, 370, 1430, 1430
0.5	parallelogram.	1.100
25.	In Fig., $AB \parallel CD$. Find the value of x .	$x = 140^{\circ}$
	108°	
	112° D	
26.	In a $\triangle ABC$, if $\angle A = 120^{\circ}$ and AB = AC. Find $\angle B$ and	$\angle B = 30^{\circ}, \angle C = 30^{\circ}$
	$\angle C$.	
27.	If the angles of a triangle are in the ratio 2:1:3, then	30°
	find the measure of smallest angle.	
	Instruction: - Q. 28 - Q. 32 carry 2 marks each.	
28.	A hemispherical tank has inner radius of 2.8 m. Find	45990 L (46000 L approx)
	its capacity in litres.	
29.	In Fig., $\angle PQR = 100^{\circ}$, where P, Q and R are points on a	$\angle OPR = 10^{\circ}$
	circle with centre O. Find $\angle OPR$.	
	O P	

30.	Assertion (A): If the volumes of two spheres are in the
	ratio 27.8 then their surface areas are in the ratio 3.2

(d) Assertion (A) is false but reason (R) is true.

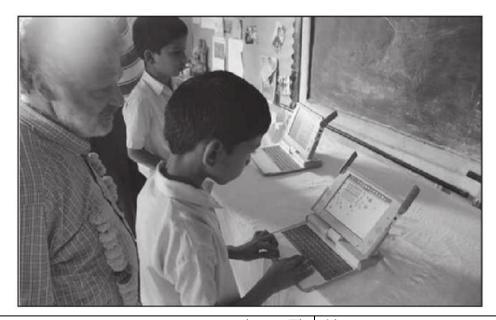
Reason (R): Volume of a sphere of radius 'r' is given by $\frac{4}{3}\pi r^3$ and surface area is given by $4\pi r^2$.

- (a) Both assertion (A) and reason (R) are true and reason (R) is the correct explanation of assertion (A).
- (b) Both assertion (A) and reason (R) are true but reason (R) is not the correct explanation of assertion (A).
- (c) Assertion (A) is true but reason (R) is false.
- (d) Assertion (A) is false but reason (R) is true.

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

Mrs. Rakhi lives in an undeveloped area where there is no facility of proper education. But one thing is available in that area that is network. Since she was very keen to take education, so she decided to complete her education through e-learning. One day she was studying number system, where she learnt about rational numbers, irrational numbers and decimal numbers, etc.

On the basis of the above information, solve the following questions:



Find the product of two irrational numbers $(7+2\sqrt{2})$

41

and $(7-2\sqrt{2})$.

If $x + \sqrt{2} = 3$, find the value of $\frac{1}{x} - x$.

 $\frac{-18+8\sqrt{2}}{7}$

	Science (30)	
	Instruction:- Q. 33 - Q. 62 carry 1 mark each.	
33.	A body whose position with respect to surrounding	Rest or stationary
	does not change, is said to be in a state of	
34.	If a body is compressed to half its previous volume,	Twice OR Double
	its density becomes	
35.	A car accelerates uniformly from 18 km/h to 36 km/h	1 m/s ² OR 1
	in 5 s. What is the acceleration in ms ⁻² ?	
36.	A person revolves one complete cycle on a square track	10 m
	of side 10 m in 40 sec. What will be the displacement	
	of person after 2 min 20 sec., If he starts from	
	midpoint of any side of square?	
37.	The gravitational force between two objects is F.	4F OR 4 times
	If masses of both objects are doubled without changing	
	distance between them, then the gravitational force	
	would become	
38.	The S.I. unit of buoyant force is	Newton (N)
39.	Objects in motion possess energy and can do work;	Kinetic energy
	this energy is called	
40.	A force of 6 N displaces a body by 10 m in 2 seconds.	30 W
	The power will be	
41.	Human heart beats about 72 times in a minute. So the	1.2 Hz
	frequency of the heartbeat is	
42.	The highest frequency produced by a man is 1700 Hz	1:0.61 OR 2780/1700
	and that of a woman is 2780 Hz.	
	The ratio of wavelengths of the sound of man and	
	woman is (speed of sound is 340 m/s)	
43.	Write the pair of isotopes of chlorine.	35 37 Cl and Cl
		Cl and Cl 17
44.	What is the maximum capacity of K shell to hold	Two
	electrons?	
45.	As the temperature increases what change is observed	Rate of evaporation increases
	in the rate of evaporation?	
46.	202°C =K	475 K

47.	Write the atomic mass of S and Na.	S – 32u	
77.	write the atomic mass of 5 and Na.		
		Na – 23u	
48.	What is the chemical name of MgSO ₄ ?	Magnesium sulphate	
49.	What is the number of protons in a chlorine atom?	17	
50.	Name a mixture that will show Tyndall effect.	Blood, Milk, Muddy Water etc.	
51.	Name the solute and solvent in soda water.	Solute – CO ₂ , Solvent – Water	
52.	What is the atomicity of ozone?	3 OR Triatomic	
53.	What is the control center of a cell?	Nucleus	
54.	Which tissue connects bones to muscles?	Tendon	
55.	The period of milk production after the birth of a calf is	Lactation period	
	called as.		
56.	What is the basic unit of life?	Cell	
57.	Which type of tissue transports water and minerals in	Xylem	
	plants?		
58.	The cell membrane is in nature.	semi permeable	
59.	Cells with similar structure and function form a group	tissue	
	of cells called		
60.	The process of improving crop varieties through	hybridization	
	breeding is called		
61.	Tissues that provide support and mechanical strength	sclerenchyma	
	to plants are called tissues.		
62.	and are the two modification of	Arenchyma, Chlorenchyma	
	parenchyma tissue.		
	SST (10)		
	Instruction:- Q. 63 - Q. 72 carry 1 mark each.		
63.	Who was the first ruler to unify Germany?	Bismarck	
64.	What was the name of Hitler's autobiography?	Mein	
65.	Which year did the French Revolution begin?	1789	
66.	Which country did Hitler rule?	Germany	
67.	Which type of soil is most suitable for growing cotton?	Black	
68.	Which soil is ideal for wheat cultivation?	Alluvial	
69.	What is the main crop grown in the Deccan plateau?	Millets	
70.	Who is the constitutional head of India? President		
71.	Which court is at the top of the judicial system in	Supreme	
	India?		

72.	Which sector includes services like education and	Tertiary				
	health?					
	English (10)					
	Instruction:- Q. 73 - Q. 82 carry 1 mark each.					
	Read the passage carefully:					
	The Impact of Social Media on Teenagers					
	 Social media has transformed communication, particularly for teenagers. Platforms like Instagram, Snapchat, and TikTok provide avenues for self-expression, learning, and networking. However, the impact of social media on teenagers is a double-edged sword. On one hand, social media offers tremendous benefits. It helps teenagers stay connected with friends and family, learn new skills, and explore diverse cultures. Moreover, it serves as a platform for advocacy, enabling young people to raise awareness about social issues. On the other hand, its overuse can lead to significant problems. Studies have shown that prolonged exposure to social media can disrupt sleep patterns, reduce productivity, and even affect mental health. One major concern is the tendency of teenagers to compare their lives to the idealized, curated content on social media. This often leads to feelings of inadequacy, low self-esteem, 					
	and anxiety. Cyber bullying is another alarming issue, with many teenagers experiencing harassment online. These negative experiences can take a toll on their emotional well-being. 4. To use social media effectively, teenagers need to strike a balance. They should set time limits, focus on meaningful interactions, and avoid getting influenced by unrealistic portrayals of life online. Parents and educators also play a key role in guiding teenagers toward mindful social media use. Social media is a powerful tool, but its potential benefits can only be realized when used responsibly.					
	Based on your understanding of the passage, choose	the appropriate option:				
73.	What is one benefit of social media for teenagers? (a) It reduces anxiety levels (b) It helps in learning new skills (c) It ensures emotional stability (d) It eliminates cyberbullying	(b) It helps in learning new skills				
74.	What is one major concern about prolonged social media use? (a) Improved mental health (b) Disrupted sleep patterns (c) Enhanced physical fitness	(b) Disrupted sleep patterns				
	(d) Increased productivity					

75.	What negative emotion is linked to comparing lives on				(c) Inadequacy	
	social media	?				
	(a) Happines	S	(b) Confidence	ee		
	(c) Inadequa	су	(d) Excitemen	nt		
76.	How can teer	nagers use soc	cial media effec	tively?	(a) By setting time limits	
	(a) By setting	g time limits				
	(b) By compa	aring themselv				
	(c) By posting only curated content					
	(d) By using	it without guid	lance			
77.	Who plays a	key role in gu	iding teenager	s' social media	(b) Parents and educators	
	use?					
	(a) Teachers	and friends	(b) Parents a	nd educators		
	(c) Celebrities	s	(d) Online inf	luencers		
	Fill in the b	lanks in the p	oaragraph give	en below with t	he help of options that follow.	
	English is on	ne of the most	widely spoken	languages in th	ne world. It serves as an (78)	
	language in	many countrie	es and is often	used for comm	unication in international business,	
	science, and technology. Learning English improves car					
	access to global information. Moreover, it enables people connect and share ideas. Proficiency in English is not					
				English is not	just a skill but a (81) in	
	today's globa	alised world.	Consistent pra	actice in speak	ing, reading, and writing helps in	
	(8	2) fluency ove				
78.	(a) regional	(b) national	(c) global	(d) official	(d) official	
79.	(a) limits	(b) reduces	(c) enhances	(d) ignores	(c) enhances	
80.	(a) races	(b) regions	(c) cultures	(d) families	(c) cultures	
81.	(a) choice	(b) necessity	(c) challenge	(d) hobby	(b) necessity	
82.	(a) losing	(b) forgetting	(c) achieving	(d) stopping	(c) achieving	
				Hindi (05)		
			7 carry 1 mar	k each.		
	निम्नलिखित वाक्यों को शुध्द रुप में लिखिए।					
83.	बुरे आदत से बची	T			बुरी आदत से बचो।	
84.	मुझको खाना नहीं खाना				मुझे खाना नहीं खाना	
	निम्नलिखित शब्द स	ांबंधी अशुध्दियों को सु	धार कर लिखिए।			
85.	जंचाई				ऊँचाई	
86.	छत्रिय				क्षत्रिय	
87.	निश्फल				निष्फल	
