



ATOMIC ENERGY CENTRAL SCHOOL - 5, MUMBAI
MCQ TEST, JUNE 2024

CLASS: IX

Time Allowed : 2 Hrs.

Maximum Marks : 100

Section A - English		
1	What is the central theme of "How I Taught My Grandmother to Read"? A. The importance of education B. Overcoming challenges in life C. The relationship between grandparents & grandchildren D. The power of storytelling	[1]
2	In the story How I taught My grandmother to read, who is Krishtakka? A. Sudha's grandmother B. Popular Kannada writer C. The protagonist of Kashi Yatre D. Sudha's Mother	[1]
3	How did Sudha's grandmother feel when she could not read her the episode of her favourite novel while Sudha was away? A. She was excited and eager B. She was indifferent and didn't care much C. She felt embarrassed and helpless. D. She was angry and refused to learn	[1]
4	What does the brook's description of "chatter" and "babble" suggest about its character? A. It is silent and calm B. It is noisy and energetic C. It is sad and melancholic D. It is deep and mysterious	[1]
5	"For men may come and men may go, / But I go on forever." What idea does this famous line convey about the brook? A. It is affected by human actions B. It is eternal and continuous C. It dries up during droughts D. It changes its course frequently	[1]
6	What does the poet imply about the brook's journey in the line "I chatter over stony ways, In little sharps and trebles"? A. It flows silently B. It sings joyfully C. It struggles painfully D. It moves swiftly	[1]
7	"I slip, I slide, I gloom, I glance, / Among my skimming swallows; / I make the netted sunbeam dance / Against my sandy shallows." What does the brook's movement and interaction with the swallows and sunbeam suggest? A. Its melancholic state of mind B. Its anger towards the swallows C. Its fear of the sunlight D. Its playful and dynamic nature	[1]
8	I chatter, chatter, as I flow / To join the brimming river, / For men may come and men may go, / But I go on forever. What does the repetition of "chatter, chatter" emphasize in this stanza? A. The brook's loneliness B. The brook's silence C. The brook's continuous movement D. The brook's depth	[1]
9	"I slip, I slide, I gloom, I glance." What poetic device is most prominently used in this line? A. Alliteration B. Onomatopoeia C. refrain D. repetition	[1]
10	I make the netted sunbeam dance / Against my sandy shallows. What poetic device does Tennyson employ in this line? Give a reason A. Metaphor as it indirectly compares sunbeam and shallows B. Personification as the brook is presented with human like qualities C. Onomatopoeia as we can connect to the sound of the brook D. Simile as it directly compares sunbeam and shallows	[1]
11	Avva was a wonderful student. The amount of homework she did was amazing. She would read, repeat, write and recite. These lines suggest that Avva was A. Ambitious and hardworking B. Sharp and revengeful C. Self centred and helpful D. Devoted and focussed	[1]

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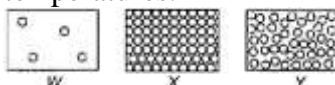
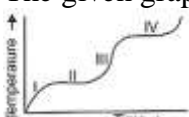
Section C - Mathematics

26	If the polynomial $x^3 - 6x^2 + ax + 3$ leaves a remainder 7 when divided by $(x - 1)$, then the value of a is a) 7 b) 9 c) 0 d) 8	[1]
27	The value of the polynomial $5x - 4x^2 + 3$, when $x = -1$ is a) - 6 b) 6 c) 1 d) - 1	[1]
28	The zero of the polynomial $p(x) = 5x - 2$ is a) $-\frac{5}{2}$ b) $\frac{5}{2}$ c) $\frac{2}{5}$ d) $-\frac{2}{5}$	[1]
29	If $a^2 + b^2 + c^2 = 30$ and $a + b + c = 10$, then the value of $ab + bc + ca$ is a) 30 b) 25 c) 35 d) 40	[1]
30	The zeros of the polynomial $p(x) = x^2 - 3x$ are a) 0, 3 b) 0, - 3 c) 3, - 3 d) 0, 0	[1]
31	The remainder obtained when the polynomial $p(x)$ is divided by $(b - ax)$ is a) $p\left(\frac{-a}{b}\right)$ b) $p\left(\frac{b}{a}\right)$ c) $p\left(\frac{a}{b}\right)$ d) $p\left(\frac{-b}{a}\right)$	[1]
32	If $x^2 + \frac{1}{x^2} = 38$, then the value of $x - \frac{1}{x}$ is a) 3 b) 4 c) 5 d) 6	[1]
33	When $p(x) = x^4 + 2x^3 - 3x^2 + x - 1$ is divided by $(x - 2)$, the remainder is a) - 15 b) 21 c) - 1 d) 0	[1]
34	The zeros of the polynomial $p(x) = 2x^2 + 7x - 4$ are a) $4, \frac{1}{2}$ b) $-4, -\frac{1}{2}$ c) $-4, \frac{1}{2}$ d) $4, -\frac{1}{2}$	[1]
35	The coefficient of x^2 in the expansion of $(x + 3)^4$ is a) 54 b) 27 c) 3 d) 1	[1]
36	$75 \times 75 + 2 \times 75 \times 25 + 25 \times 25$ is equal to a) 7500 b) 3750 c) 10000 d) 6250	[1]
37	$(4x^2 + 4x - 3) = ?$ a) $(2x + 3)(2x - 1)$ b) $(2x - 1)(2x - 3)$ c) $(2x + 3)(2x + 1)$ d) $(2x + 1)(2x - 3)$	[1]
38	The possible expressions for the length and breadth of the rectangle whose area is given by $4a^2 + 4a - 3$ is a) $(2a - 1)$ and $(2a - 3)$ b) $(2a + 1)$ and $(2a - 3)$	[1]

	c) $(2a + 1)$ and $(2a + 3)$ d) $(2a - 1)$ and $(2a + 3)$	
39	A symbol having a fixed value is called a _____. a) coefficient b) term c) constant d) variable	[1]

40	Which of the following is not a polynomial? a) $\sqrt{3}x^2 - 2\sqrt{3}x + 5$ c) $9x^2 - 4x + \sqrt{2}$	b) $x + \frac{3}{x}$ d) $\frac{3}{2}x^3 + 6x^2 - \frac{1}{\sqrt{2}}x - 8$	[1]
41	The zeros of the quadratic polynomial $x^2 + 88x + 125$ are a) both negative d) one positive and one negative	b) both positive c) both equal	[1]
42	When $p(x) = x^3 - ax^2 + x$ is divided by $(x - a)$, the remainder is a) 0	b) a c) 2a d) 3a	[1]
43	A polynomial containing one nonzero term is called a _____. a) trinomial	b) binomial c) quadrinomial d) monomial	[1]
44	If $p(x) = (x - 1)(x + 1)$, then the value of $p(2) + p(1) - p(0)$ is a) 2	b) 4 c) 1 d) 3	[1]
45	If $x^3 + \frac{1}{x^3} = 110$, then $x + \frac{1}{x} =$ a) 15	b) 20 c) 5 d) 10	[1]
46	If $x^{140} + 2x^{151} + k$ is divisible by $x + 1$, then the value of k is a) 2	b) 1 c) - 2 d) - 3	[1]
47	The maximum number of terms in a polynomial of degree 10 is a) 11	b) 12 c) 10 d) 9	[1]
48	$\sqrt{3}$ is a polynomial of degree. a) 0	b) 2 c) $\frac{1}{2}$ d) 1	[1]
49	$(x^2 - 4x - 21) = ?$ a) $(x - 7)(x + 3)$ c) $(x + 7)(x + 3)$	b) $(x - 7)(x - 3)$ d) $(x + 7)(x - 3)$	[1]
50	If $p(x) = x^3 - x^2 + x + 1$, then the value of $\frac{p(-1)+p(1)}{2}$ is a) 2	b) 3 c) 0 d) 1	[1]

Section D - Science

51	At 0°C or 273K , the physical state of water is observed as: a) solid b) vapour c) liquid d) both solid and liquid	[1]												
52	A brief information about three substances is given in the table. <table border="1" style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th>Substance</th> <th>Melting point</th> <th>Boiling point</th> </tr> </thead> <tbody> <tr> <td>P</td> <td>23°C</td> <td>60°C</td> </tr> <tr> <td>Q</td> <td>10°C</td> <td>20°C</td> </tr> <tr> <td>R</td> <td>65°C</td> <td>110°C</td> </tr> </tbody> </table> <p>Which of the following is incorrect about these substances? a) At room temperature, substance P will have fixed volume but no fixed shape. b) None of these c) At room temperature substance R will have strongest interparticle forces. d) At room temperature substance Q will have maximum space between the particles.</p>	Substance	Melting point	Boiling point	P	23°C	60°C	Q	10°C	20°C	R	65°C	110°C	[1]
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P	23°C	60°C												
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53	During summer, water kept in an earthen pot becomes cool because of the phenomenon of a) transpiration b) evaporation c) osmosis d) diffusion	[1]												
54	Diagrams W, X and Y show how the particles of a substance are packed at different temperatures.  <p>The given graph shows the temperature changes which occur on warming the substance. </p>	[1]												

	d) Displacement cannot be zero											
69	A body is thrown vertically upwards with velocity u , the greatest height h to which it will rise is a) $\frac{u}{2g}$ b) $\frac{u^2}{2g}$ c) $\frac{u^2}{g}$ d) $\frac{u}{g}$	[1]										
70	For a uniformly accelerated body with initial and final velocities as u and $v \text{ ms}^{-1}$, the average velocity is: a) $\frac{u-v}{2}$ b) $\frac{v}{2}$ c) $\frac{u+v}{2}$ d) $\frac{u}{2}$	[1]										
71	Slope of a velocity - time graph gives a) The displacement b) The acceleration c) The distance d) The speed	[1]										
72	Suppose a boy is enjoying a ride on a merry - go - round which is moving with a constant speed of 10ms^{-1} . It implies that the boy is a) Moving with no acceleration b) At rest c) In accelerated motion d) Moving with uniform velocity	[1]										
73	A body moves on three - quarters of a circle of radius r . The displacement and distance travelled by it a) displacement = 0, distance = $\frac{3\pi r}{2}$ b) displacement = r , distance = $3r$ c) distance = $2r$, displacement = $\frac{3\pi r}{2}$ d) displacement = $\sqrt{2}r$ Distance = $\frac{3\pi r}{2}$	[1]										
74	The area below $v - t$ graph is a measure of: a) Angular speed b) Displacement c) Angular acceleration d) Acceleration	[1]										
75	Match the column I with column II and mark the correct option from the following given <table border="1" style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th>Column I</th> <th>Column II</th> </tr> </thead> <tbody> <tr> <td>(a) 36 km h^{-1}</td> <td>(i) 20000 mm</td> </tr> <tr> <td>(b) 1 m s^{-2}</td> <td>(ii) 980 cm s^{-2}</td> </tr> <tr> <td>(c) 9.8 m s^{-2}</td> <td>(iii) 12960 km h^{-2}</td> </tr> <tr> <td>(d) 0.02 km</td> <td>(iv) 10 m s^{-1}</td> </tr> </tbody> </table> codes. a) (a) - (iii), (b) - (ii), (c) - (i), (d) - (iv) b) (a) - (i), (b) - (ii), (c) - (iii), (d) - (iv) c) (a) - (ii), (b) - (i), (c) - (iv), (d) - (iii) d) (a) - (iv), (b) - (iii), (c) - (ii), (d) - (i)	Column I	Column II	(a) 36 km h^{-1}	(i) 20000 mm	(b) 1 m s^{-2}	(ii) 980 cm s^{-2}	(c) 9.8 m s^{-2}	(iii) 12960 km h^{-2}	(d) 0.02 km	(iv) 10 m s^{-1}	[1]
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Section E - Social Science

76	What was Scepter? a) Symbol of royal power b) Strength lies in unity c) Personification of the law d) Symbol of Liberty	
77	The storming of the Bastille occurred on the morning of? a) 26 January 1789 b) 15 July 1789 c) 14 July 1789 d) 15 August 1789	
78	Which of the following is not the reason of empty treasure? a) Food supplies to the ordinary citizens. b) The cost of maintaining an extravagant court. c) To meet its regular expenses. d) Long years of war.	
79	Passive citizens of France were: a) Only men above 25 years b) Only propertied women c) Only propertied men d) Men and women who didn't vote	
80	Marseilles is a: a) Militia b) National anthem of France c) Representative of third estate d) Political club	
81	Which of the following was not the reason of subsistence crisis? a) Drought or hail reduced the harvest b) The rapid increase in the demand for food grains c) Worker's wages did not keep pace with the rise in prices	

