

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"?	[1]	
	A. The importance of education B. Overcoming challenges in life		
	C. The relationship between grandparents & grandchildren D. The power of storytelling		
2	In the story How I taught My grandmother to read, who is Krishtakka?	[1]	
	A. Sudha's grandmother B. Popular Kannada writer		
	C. The protagonist of Kashi Yatre D. Sudha's Mother		
3	How did Sudha's grandmother feel when she could not read her the episode of her favourite	[1]	
	novel while Sudha was away?		
	A. She was excited and eager		
	B. She was indifferent and didn't care much		
	C. She felt ambarrased and helpless.		
	D. She was angry and refused to learn		
4	What does the brook's description of "chatter" and "babble" suggest about its character?	[1]	
	A. It is silent and calm B. It is noisy and energetic		
	C. It is sad and melancholic D. It is deep and mysterious		
5	"For men may come and men may go, / But I go on forever." What idea does this	[1]	
	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		
6	What does the poet imply about the brook's journey in the line "I chatter over stony ways,	[1]	
	In little sharps and trebles"?		
	A. It flows silently B. It sings joyfully C. It struggles painfully D. It moves swiftly		
7	"I slip, I slide, I gloom, I glance, / Among my skimming swallows; / I make the netted	[1]	
	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 D. The brook's doubth		
0	C. The brook's continuous movement D. The brook's depth Lelin Lelide Lelean Lelane "What postio device is most prominently used in this line?	[4]	
9	I slip, I slide, I gloom, I glance." What poetic device is most prominently used in this line?	[1]	
10	A. Alliteration B. Onomatopoeia C. refrain D. repetition I make the netted sunbeam dance / Against my sandy shallows." What poetic device	[4]	
10	does Tennyson employ in this line? Give a reason	[1]	
	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		
11	Avva was a wonderful student. The amount of homework she did was amazing. She would	[1]	
11	read, repeat, write and recite. These lines suggest that Avva was	「TT」	
	A. Ambitious and hardworking B. Sharp and revengeful		
	C. Self centred and helpful D. Devoted and focussed		
	c. Sen centred and neighti	L	

	My grandmother called me to the pooja place and made me sit down on a stool. She	[1]
	gave me a gift of a frock material. Then she did something unusual.	
	How did it make Sudha feel and why?	
	A. She felt surprised and was taken aback as elders never touch the feet of youngers.	
	B. She felt overwhelmed as Avva made her feel special.	
	C. She felt angry as it was against the custom.	
	D. She felt proud as she had taught her Avva how to read.	F47
13	Why did Avva think of learning to read and write at the age of sixty-two?	[1]
	A. She wanted to read independently.	
	B. She wanted to write a novel and earn money on her own.C. She wanted to teach the village kids.	
	D. She wanted to teach the vinage kids. D. She wanted to show her value and worth to her family members.	
Soct	ion B – Hindi	
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Sect	ion C – Mathematics	l .
26	If the polynomial x^3 - $6x^2$ + ax + 3 leaves a remainder 7 when divided by $(x - 1)$,	[1]
	then the value of a is	
	a) 7 b) 9 c) 0 d) 8 The value of the polynomial $5x - 4x^2 + 3$, when $x = -1$ is	
27	The value of the polynomial $5x - 4x^2 + 3$, when $x = -1$ is	[1]
	a) - 6 b) 6 c) 1 d) - 1 The zero of the polynomial $p(x) = 5x - 2$ is	
28	The zero of the polynomial $p(x) = 5x - 2$ is	[1]
	a) $\frac{-5}{2}$ b) $\frac{5}{2}$ c) $\frac{2}{5}$ d) $\frac{-2}{5}$	
29	If $a^2 + b^2 + c^2 = 30$ and $a + b + c = 10$, then the value of $ab + bc + cais$	[1]
	a) 30 b) 25 c) 35 d) 40	
30	a) 30 b) 25 c) 35 d) 40 The zeros of the polynomial $p(x) = x^2 - 3x$ are	[1]
	a) 0, 3 b) 0, - 3 c) 3, - 3 d) 0, 0	
31	The remainder obtained when the polynomial $p(x)$ is divided by $(b - ax)$ is	[1]
	a) $p\left(\frac{-a}{b}\right)$ b) $p\left(\frac{b}{a}\right)$ c) $p\left(\frac{a}{b}\right)$	
32	a) $p\left(\frac{-a}{b}\right)$ b) $p\left(\frac{b}{a}\right)$ c) $p\left(\frac{a}{b}\right)$ d) $p\left(\frac{-b}{a}\right)$ If $x^2 + \frac{1}{x^2} = 38$, then the value of $x - \frac{1}{x}$ is	[1]
33	a) 3 b) 4 c) 5 d) 6 When $p(x) = x^4 + 2x^3 - 3x^2 + x - 1$ is divided by $(x - 2)$, the remainder is	[1]
		[*]
34	a) - 15 b) 21 c) - 1 d) 0 The zeros of the polynomial $p(x) = 2x^2 + 7x - 4$ are	[1]
	a) $4,\frac{1}{2}$ b) - $4,\frac{-1}{2}$ c) - $4,\frac{1}{2}$ d) $4,\frac{-1}{2}$	[_]
35	The coefficient of x^2 in the expansion of $(x + 3)^4$ is	[11]
33	a) 54 b) 27 c) 3 d) 1	[1]
36	$75 \times 75 + 2 \times 75 \times 25 + 25 \times 25$ is equal to	[1]
	a) 7500 b) 3750 c) 10000 d) 6250	[*]
37	$(4x^2 + 4x - 3) = ?$	[1]
	a) (2x + 3) (2x - 1) b) (2x - 1) (2x - 3)	
	c) $(2x+3)(2x+1)$ d) $(2x+1)(2x-3)$	
38	The possible expressions for the length and breadth of the rectangle whose area is	[1]
	given by $4a^2 + 4a - 3$ is	
	a) (2a - 1) and (2a - 3) b) (2a +1) and (2a - 3)	

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

	Which of the following is not a polynomial?		
	a) $\sqrt{3}x^2 - 2\sqrt{3}x + 5$ b) $x + \frac{3}{x}$		
40	c) $9x^2 - 4x + \sqrt{2}$ 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 b) both positive c) both equal d) one positive and one negative	[1]	
42	When $p(x) = x^3 - ax^2 + x$ is divided by $(x - a)$, the remainder is	[1]	
43	a) 0 b) a c) 2a d) 3a A polynomial containing one nonzero term is called a a) trinomial b) binomial c) quadrinomial d) monomial		
44	If $p(x) = (x - 1)(x + 1)$, then the value of $p(2) + p(1) - p(0)$ is	[1]	
45	a) 2 b) 4 c) 1 d) 3 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	[1]	
47	a) 2 b) 1 c) - 2 d) - 3 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) $(x - 7) (x + 3)$ b) $(x - 7) (x - 3)$ c) $(x + 7) (x + 3)$ d) $(x + 7) (x - 3)$ If $p(x) = x^{3} - x^{2} + x + 1$, then the value of $\frac{p(-1) + p(1)}{2}$ is	[1]	
50	If $p(x) = x^3 - x^2 + x + 1$, then the value of $\frac{p(-1) + p(1)}{3}$ is	[1]	
	a) 2 b) 3 c) 0 d) 1		
Sect	ion D - Science	,	
51	At 0° C or 273 K, 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.	[1]	
	Substance Melting point Boiling point	' '	
	P 23 ° C 60 ° C		
	Q 10 ° C 20 ° C		
	R 65 ° C 110 ° C		
	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.		
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. The given graph shows the temperature changes which occur on warming the substance.	[1]	
	Time ->		

	In which region of the graph would all the particles be packed as in Y?	
	a) I b) II c) III d) IV	
55	The evaporation of a liquid occurs only at	[1]
33	a) all temperatures b) temperature less than 100° C	[±]
	c) fixed temperature d) temperature more than 100° C	
56	Which of the following factors are responsible for the change of state of solid CO ₂ into	[1]
30	vapours?	[1]
	a) Decrease in pressure b) Increase in temperature	
	c) Increase in pressure d) Both decrease in pressure and an increase in temperature	
57	Which one of the following decreases the extent of evaporation of water?	[1]
37	a) Large surface area b) High temperature	[±]
	c) High wind speed d) Large humidity	
58	A desert cooler gave comfort due to cooling caused by the evaporation of water. Under	[1]
	which one of the following conditions it work more effectively?	[+]
	a) A hot and sunny day b) Hot and rainy weather	
	c) On a rainy day d) Hot and dry weather	
59	The functional units of the Golgi apparatus are:	[1]
	a) cisternae b) vacuoles c) vesicles d) cytoplasm	[-]
60	Amoeba acquires its food through a process, termed	[1]
	a) Plasmolysis b) Endocytosis c) Both exocytosis and endocytosis	[-]
	d) Exocytosis	
61	Which of the following statements is incorrect regarding endoplasmic reticulum?	[1]
	a) None of these	[-]
	b) SER helps in detoxification in the liver of vertebrates.	
	c) ER helps in the transport of materials from one part of the cell to another.	
	d) RER helps in the synthesis of proteins.	
62	A cell will swell up if	[1]
	a) The concentration of water molecules in the surrounding medium is higher than water	
	molecules concentration in the cell.	
	b) The concentration of water molecules is the same in the cell and in the surrounding	
	medium.	
	c) The concentration of water molecules does not matter.	
	d) The concentration of water molecules in the cell is higher than the concentration of	
	water molecules is the surrounding medium.	
63	The cell organelles (other than the nucleus) which contain DNA are:	[1]
	a) Plastids and lysosomes b) Golgi apparatus and lysosomes	
	c) Plastids and mitochondria d) Mitochondria and Golgi apparatus	
64	Viruses do not show any characteristic of living until they enter a living cell, because of the	[1]
	absence of:	
	a) membrane b) mitochondria c) nucleic acid d) proteins	F 4 7
65	Which of the following cell functions will stop, if its ribosomes are destroyed?	[1]
	a) Formation of complex sugars b) Lipid metabolism	
	c) Protein synthesis d) ATP synthesis	F47
66	Lysosomes are formed by:	[1]
	a) SER b) Golgi apparatus c) Plasma membrane d) RER	F4 7
67	The well-defined nucleus is absent in	[1]
(0	a) Prokaryotic cell b) Plant cell c) Animal cell d) Eukaryotic cell	[4]
68	Which of the following is the characteristic of displacement of an object?	[1]
	a) Displacement has only magnitude and no specific direction	
	b) The magnitude of the displacement is greater than the distance travelled by a moving	
	object o) Displacement has magnitude as well as specific direction	
1	c) Displacement has magnitude as well as specific direction	

	d) Displacement cannot be zero	
69	A body is thrown vertically upwards with velocity u, the greatest height h to which it will	[1]
	rise is	L-J
	a) $\frac{u}{2g}$ b) $\frac{u^2}{2g}$ c) $\frac{u^2}{g}$ d) $\frac{u}{g}$	
70	a) $\frac{u}{2g}$ b) $\frac{u^2}{2g}$ c) $\frac{u^2}{g}$ d) $\frac{u}{g}$ For a uniformly accelerated body with initial and final velocities as u and v ms ⁻¹ , the	[1]
' '	average velocity is:	[-]
	u - v $u + v$ $u + v$	
	$(a) \frac{1}{2}$ $(b) \frac{1}{2}$ $(c) \frac{1}{2}$ $(d) \frac{1}{2}$	
71	a) $\frac{u-v}{2}$ b) $\frac{v}{2}$ c) $\frac{u+v}{2}$ d) $\frac{u}{2}$ Slope of a velocity - time graph gives	[1]
	a) The displacement b) The acceleration c) The distance d) The speed	
72	a) The displacement b) The acceleration c) The distance d) The speed Suppose a boy is enjoying a ride on a merry - go - round which is moving with a constant	[1]
	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	
73	A body moves on three - quarters of a circle of radius r. The displacement and distance	[1]
, ,	travelled by it	[+]
	a) displacement = 0, distance = $\frac{1}{2}$ b) displacement = r, distance = 3r	
	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 = $\frac{3\pi r}{2}$	
74	The area below v - t graph is a measure of:	[1]
/4		[1]
	a) Angular speed b) Displacement c) Angular acceleration d) Acceleration	
7.5	C) Aligurar acceleration (i) Acceleration	F4.1
75	Match the column I with column II and mark the correct option from the following given	[1]
	Column II Column II	
	(a) 36 km h ⁻¹ (i) 20000 mm	
	(b) $1 \text{ m s} -2$ (ii) $980 \text{ cm s} -2$	
	(c) 9.8 m s -2 (iii) 12960 km h -2	
	(d) 0.02 km (iv) 10 m s -1	
	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) - (iv)	
	(a) - (11), (b) - (1), (c) - (10), (d) - (111) $(a) - (10), (b) - (111), (c) - (11), (d) - (11)$	
	ion 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.	
70	Passive citizens of France were:	+
79		
	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	

	d) Occurrence of a great family o		
02	d) Occurrence of a great famine Which of the following low was not made by Pohesniams?	+	
82	Which of the following law was not made by Robespierre?		
	a) Meat and bread were rationed.b) The prices were fixed by the Monarch.c) Peasants were to take their grains to the cities to sell.		
	d) Laws were made to fix the maximum wages and prices.		
83	Directory means:		
03	a) An executive made up of five members		
	b) Addresses of the Legislative Council		
	c) List of names d) Formed by the military dictator		
84	How much amount of tithe was levied from peasants by the church?		
04	a) One- tenth of the agricultural produce		
	b) One - tenth of the income of family members		
	c) One - tenth of the land owned d) One - tenth of the cattle's owned		
85	The most revolutionary social reforms of the Jacobin regime was?		
03	a) The abolition of slavery in the French colonies		
	b) New Constitution was formed		
	c) Women got right to vote d) Meats and bread were rationed		
86	The total length of the coastline of the Indian mainland is	1	
	a) 9,000 km b) 8,878 km c) 7,516 km d) 6,500 km		
87	Which one of the following is the Southernmost point of Indian mainland?		
07	a) Kavaratti b) Indira Point c) Kanyakumari d) Lakshadweep		
88	The Tropic of Cancer does not pass through:		
	a) Chhattisgarh b) Tripura c) Odisha d) Rajasthan		
89	Which of the following place of India is located on the three seas?	[1]	
	a) Kanyakumari b) Madurai c) Kochi d) Vishakapatnam	[-]	
90	The advantage of opening of the Suez Canal to India	[1]	
	a) Increase in political crisis b) Change in culture	[-]	
	c) Influence the people d) India's distance from Europe has been reduced		
91	What is the position of India in the world in terms of area?	[1]	
	a) Eight b) Seventh c) Fifth d) Sixth		
92	Which of the following group of islandslies in the Bay of Bengal?	[1]	
	a) Sri Lanka b) Lakshwadeep c) Andaman and Nicobar d) Daman and Diu		
93	In which of the following year Indira - Point was submerged underwater?	[1]	
	a) 2005 b) 2007 c) 2004 d) 2002		
94	In which one of the following state Tropic of Cancer does not pass through?	[1]	
	a) Tripura b) Orissa c) Rajasthan d) Chhattisgarh		
95	Uttarakhand, Uttar Pradesh, Bihar, West Bengal and Sikkim have common frontiers	[1]	
	with		
	a) Myanmar b) Bhutan c) China d) Nepal		
96	People of Palampur sell milk in the near by large village named	[1]	
	a) Siliguri b) Raiganj c) Pitampura d) Shahpur		
97	Which of the following is grown in the rainy season?	[1]	
	a) Jowar and bajra b) Soyabean c) Rice d) Wheat		
98	What kind of transport is used in Palampur village	[1]	
	a) Cars b) Bullock c) Bullock carts d) Boat		
99	Operation Floodis related to	[1]	
	a) Grain production b) Produce fish c) Control flood d) Milk production		
100	Whichof the following is not a factor of production?	[1]	
	a) Labour and Land b) Land and Human Capital		
	a) Labour and Land b) Land and Human Capital c) Capital and Labour d) Land and Market		