## ATOMIC ENERGY CENTRAL SCHOOL - 5, MUMBAI <br> 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"? <br> A. The importance of education <br> B. Overcoming challenges in life <br> 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? <br> A. Sudha's grandmother <br> B. Popular Kannada writer <br> C. The protagonist of Kashi Yatre <br> 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? <br> A. She was excited and eager <br> B. She was indifferent and didn't care much <br> C. She felt ambarrased and helpless. <br> D. She was angry and refused to learn | [1] |
| 4 | What does the brook's description of "chatter" and "babble" suggest about its character? <br> A. It is silent and calm <br> B. It is noisy and energetic <br> C. It is sad and melancholic <br> 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? <br> A. It is affected by human actions <br> B. It is eternal and continuous <br> C. It dries up during droughts <br> 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"? <br> A. It flows silently <br> B. It sings joyfully <br> C. It struggles painfully <br> 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." <br> What does the brook's movement and interaction with the swallows and sunbeam suggest? <br> A. Its melancholic state of mind <br> B. Its anger towards the swallows <br> C. Its fear of the sunlight <br> 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? <br> A. The brook's loneliness <br> B. The brook's silence <br> C. The brook's continuous movement <br> 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? <br> A. Alliteration <br> B. Onomatopoeia <br> C. refrain <br> 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 <br> A. Metaphor as it indirectly compares sunbeam and shallows <br> B. Personification as the brook is presented with human like qualities <br> C. Onomatopoeia as we can connect to the sound of the brook <br> 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 <br> A. Ambitious and hardworking <br> B. Sharp and revengeful <br> C. Self centred and helpful <br> D. Devoted and focussed | [1] |


| 12 | My grandmother called me to the pooja place and made me sit down on a stool. She gave me a gift of a frock material. Then she did something unusual. <br> How did it make Sudha feel and why? <br> A. She felt surprised and was taken aback as elders never touch the feet of youngers. <br> B. She felt overwhelmed as Avva made her feel special. <br> C. She felt angry as it was against the custom. <br> D. She felt proud as she had taught her Avva how to read. | [1] |
| :---: | :---: | :---: |
| 13 | Why did Avva think of learning to read and write at the age of sixty-two? <br> A. She wanted to read independently. <br> B. She wanted to write a novel and earn money on her own. <br> C. She wanted to teach the village kids. <br> D. She wanted to show her value and worth to her family members. | [1] |
| Section B - Hindi |  |  |
| 14 |  <br>  <br>  <br>  <br> ㅁㅁㅁ ㅁ ㅁ口 <br>  <br>  <br> ㅁㅁ $\square \square \square$ | [1] |
| 15 |  <br> क) <br> ㅁํㅁ ㅁㅁㅁ <br> ख <br>  <br> ग) <br> 맴 ㅁㅁㅁ <br>  | [1] |
| 16 |  <br>  <br> क) <br> ख) मटर <br> ग) <br> घ) $\quad$ ㅁㅁ | [1] |
| 17 |  <br>  <br> क) <br> ख) 뭄 ㅁㅁ <br> ग) <br> ㅁㅁㅁ ㅁㅁ <br> घ) ㅁㅁ ㅁㅁ | [1] |
| 18 |  प०००० गए? <br> क) $\square$ $\square \square$ <br> समय $\qquad$ घर <br> ख) <br>  <br> पर $\square$ समय <br>  <br>  $\square$ $\qquad$ घर | [1] |
| 19 |        | [1] |
| 20 |  <br>  <br>  <br>  <br>  <br>  <br>  <br> ㅁㅁㅁㅁ | [1] |
| 21 |  | [1] |


|  |  <br> घ) |  |
| :---: | :---: | :---: |
| 22 |  | [1] |
| 23 |  <br>  <br>  <br> क) <br> ख) <br> ग) <br> घ) | [1] |
| 24 |  <br>  <br>  <br> क) <br> ख) <br> ग) <br> घ) | [1] |
| 25 |   ```क)```  <br> ```ख)``` $\qquad$ <br> ```ग)``` <br>  <br> ```घ)``` | [1] |
|  | on C - Mathematics |  |
| 26 | If the polynomial $x^{3}-6 x^{2}+a x+3$ leaves a remainder 7 when divided by $(x-1)$, then the value of $\mathbf{a}$ is <br> a) 7 <br> b) 9 <br> c) 0 <br> d) 8 | [1] |
| 27 | The value of the polynomial $5 x-4 x^{2}+3$, when $x=-1$ is <br> a) - 6 <br> b) 6 <br> c) 1 <br> d) -1 | [1] |
| 28 | The zero of the polynomial $p(x)=5 x-2$ is <br> a) $\frac{-5}{2}$ <br> b) $\frac{5}{2}$ <br> c) $\frac{2}{5}$ <br> d) $\frac{-2}{5}$ | [1] |
| 29 | If $a^{2}+b^{2}+c^{2}=30$ and $a+b+c=10$, then the value ofab $+b c+$ cais <br> a) 30 <br> b) 25 <br> c) 35 <br> d) 40 | [1] |
| 30 | The zeros of the polynomial $p(x)=x^{2}-3 x$ are <br> a) 0,3 <br> b) $0,-3$ <br> c) $3,-3$ <br> d) 0,0 | [1] |
| 31 | The remainder obtained when the polynomial $\mathrm{p}(\mathrm{x})$ is divided by $(\mathrm{b}-\mathrm{ax})$ is <br> a) $p\left(\frac{-a}{b}\right)$ <br> b) $p\left(\frac{b}{a}\right)$ <br> c) $p\left(\frac{a}{b}\right)$ <br> 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 <br> a) 3 <br> b) 4 <br> c) 5 <br> d) 6 | [1] |
| 33 | When $\mathrm{p}(\mathrm{x})=\mathrm{x}^{4}+2 \mathrm{x}^{3}-3 \mathrm{x}^{2}+\mathrm{x}-1$ is divided by $(\mathrm{x}-2)$, the remainder is <br> a) -15 <br> b) 21 <br> c) -1 <br> d) 0 | [1] |
| 34 | The zeros of the polynomial $\mathrm{p}(\mathrm{x})=2 \mathrm{x}^{2}+7 \mathrm{x}-4$ are <br> a) $4, \frac{1}{2}$ <br> b) $-4, \frac{-1}{2}$ <br> c) $-4, \frac{1}{2}$ <br> d) $4, \frac{-1}{2}$ | [1] |
| 35 | The coefficient of $x^{2}$ in the expansion of $(x+3)^{4}$ is <br> a) 54 <br> b) 27 <br> c) 3 <br> d) 1 | [1] |
| 36 | $75 \times 75+2 \times 75 \times 25+25 \times 25$ is equal to <br> a) 7500 <br> b) 3750 <br> c) 10000 <br> d) 6250 | [1] |
| 37 | $\left(4 x^{2}+4 x-3\right)=?$ <br> a) $(2 x+3)(2 x-1)$ <br> b) $(2 x-1)(2 x-3)$ <br> c) $(2 x+3)(2 x+1)$ <br> d) $(2 x+1)(2 x-3)$ | [1] |
| 38 | The possible expressions for the length and breadth of the rectangle whose area is given by $4 a^{2}+4 a-3$ is <br> a) $(2 a-1)$ and $(2 a-3)$ <br> b) $(2 a+1)$ and $(2 a-3)$ | [1] |


|  | c) $(2 a+1)$ and $(2 a+3)$ | d) $(2 a-1)$ and $(2 a+3)$ |  |  |
| :--- | :--- | :--- | :--- | :--- |
| 39 | A symbol having a fixed value is called a <br> a) coefficient$\quad$ b) term | c) constant | d) variable | [1] |



|  | In which region of the graph would all the particles be packed as in Y? <br> a) I <br> b) II <br> c) III <br> d) IV |  |
| :---: | :---: | :---: |
| 55 | The evaporation of a liquid occurs only at <br> a) all temperatures <br> b) temperature less than $100^{\circ} \mathrm{C}$ <br> c) fixed temperature <br> d) temperature more than $100^{\circ} \mathrm{C}$ | [1] |
| 56 | Which of the following factors are responsible for the change of state of solid $\mathrm{CO}_{2}$ into vapours? <br> a) Decrease in pressure <br> b) Increase in temperature <br> c) Increase in pressure <br> d) Both decrease in pressure and an increase in temperature | [1] |
| 57 | Which one of the following decreases the extent of evaporation of water? <br> a) Large surface area <br> b) High temperature <br> c) High wind speed <br> d) Large humidity | [1] |
| 58 | A desert cooler gave comfort due to cooling caused by the evaporation of water. Under which one of the following conditions it work more effectively? <br> a) A hot and sunny day <br> b) Hot and rainy weather <br> c) On a rainy day <br> d) Hot and dry weather | [1] |
| 59 | The functional units of the Golgi apparatus are: <br> a) cisternae <br> b) vacuoles <br> c) vesicles <br> d) cytoplasm | [1] |
| 60 | Amoeba acquires its food through a process, termed <br> a) Plasmolysis <br> b) Endocytosis <br> c) Both exocytosis and endocytosis <br> d) Exocytosis | [1] |
| 61 | Which of the following statements is incorrect regarding endoplasmic reticulum? <br> a) None of these <br> b) SER helps in detoxification in the liver of vertebrates. <br> c) ER helps in the transport of materials from one part of the cell to another. <br> d) RER helps in the synthesis of proteins. | [1] |
| 62 | A cell will swell up if <br> a) The concentration of water molecules in the surrounding medium is higher than water molecules concentration in the cell. <br> b) The concentration of water molecules is the same in the cell and in the surrounding medium. <br> c) The concentration of water molecules does not matter. <br> d) The concentration of water molecules in the cell is higher than the concentration of water molecules is the surrounding medium. | [1] |
| 63 | The cell organelles (other than the nucleus) which contain DNA are: <br> a) Plastids and lysosomes <br> b) Golgi apparatus and lysosomes <br> c) Plastids and mitochondria <br> d) Mitochondria and Golgi apparatus | [1] |
| 64 | Viruses do not show any characteristic of living until they enter a living cell, because of the absence of: <br> a) membrane <br> b) mitochondria <br> c) nucleic acid <br> d) proteins | [1] |
| 65 | Which of the following cell functions will stop, if its ribosomes are destroyed? <br> a) Formation of complex sugars <br> b) Lipid metabolism <br> c) Protein synthesis <br> d) ATP synthesis | [1] |
| 66 | Lysosomes are formed by: <br> a) SER <br> b) Golgi apparatus <br> c) Plasma membrane <br> d) RER | [1] |
| 67 | The well-defined nucleus is absent in $\qquad$ <br> a) Prokaryotic cell <br> b) Plant cell <br> c) Animal cell <br> d) Eukaryotic cell | [1] |
| 68 | Which of the following is the characteristic of displacement of an object? <br> a) Displacement has only magnitude and no specific direction <br> b) The magnitude of the displacement is greater than the distance travelled by a moving object <br> c) Displacement has magnitude as well as specific direction | [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 <br> a) $\frac{u}{2 g}$ <br> b) $\frac{u^{2}}{2 g}$ <br> c) $\frac{u^{2}}{g}$ <br> d) $\frac{u}{g}$ | [1] |
| 70 | For a uniformly accelerated body with initial and final velocities as $u$ and $\mathrm{v} \mathrm{ms}^{-1}$, the average velocity is: <br> a) $\frac{u-v}{2}$ <br> b) $\frac{v}{2}$ <br> c) $\frac{u+v}{2}$ <br> d) $\frac{u}{2}$ | [1] |
| 71 | Slope of a velocity - time graph gives <br> a) The displacement <br> b) The acceleration <br> c) The distance <br> 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 $10 \mathrm{~ms}^{-1}$. It implies that the boy is <br> a) Moving with no acceleration <br> b) At rest <br> c) In accelerated motion <br> 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 <br> a) displacement $=0$, distance $=\frac{3 \pi r}{2}$ <br> b) displacement $=r$, distance $=3 r$ <br> c) distance $=2 r$, displacement $=\frac{3 \pi r}{2}$ <br> d) displacement $=\sqrt{2} r$ Distance $=\frac{3 \pi r}{2}$ | [1] |
| 74 | The area below $v-t$ graph is a measure of: <br> a) Angular speed <br> b) Displacement <br> c) Angular acceleration <br> d) Acceleration | [1] |
| 75 | Match the column I with column II and mark the correct option from the following given <br> a) (a) - (iii), (b) - (ii), (c) - (i), (d) - (iv) <br> b) (a) - (i), (b) - (ii), (c) - (iii), (d) - (iv) <br> c) (a) - <br> (ii),(b) - (i), (c) - (iv), (d) - (iii) <br> d) (a) - <br> (iv), (b) - <br> (iii),(c) - <br> (ii), (d) - | [1] |
|  | on E-Social Science |  |
| 76 | What was Scepter? <br> a) Symbol of royal power <br> b) Strength lies in unity <br> c) Personification of the law <br> d) Symbol of Liberty |  |
| 77 | The storming of the Bastille occurred on the morning of? <br> a) 26 January 1789 <br> b) 15 July 1789 <br> c) 14 July 1789 <br> d) 15 August 1789 |  |
| 78 | Which of the following is not the reason of empty treasure? <br> a) Food supplies to the ordinary citizens. <br> b) The cost of maintaining an extravagant court. <br> c) To meet its regular expenses. <br> d) Long years of war. |  |
| 79 | Passive citizens of France were: <br> a) Only men above 25 years <br> b) Only propertied women <br> c) Only propertied men <br> d) Men and women who didn't vote |  |
| 80 | Marseilles is a: <br> a) Militia <br> b) National anthem of France <br> c) Representative of third estate <br> d) Political club |  |
| 81 | Which of the following was not the reason of subsistence crisis? <br> a) Drought or hail reduced the harvest <br> b) The rapid increase in the demand for food grains <br> c) Worker's wages did not keep pace with the rise in prices |  |


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

