Entrance Test (Sample Question Paper) Session 2025-26
10+1 (Non-Medical)

[Section - A (Physics)]

Time : 25 min.   **Max. Marks - 15**

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1.	Write the S.I. unit of electric potential.	[1]
2.	What is the focal length of plane mirror?	[1]
3.	Define reflection of light.	[1]
4.	What is electric current?	[1]
5.	Define Electric energy.	[1]
6.	Write two uses of convex mirror.	[2]
7.	Define resistance. Give its S.I. unit.	[2]
8.	Three resistors having resistance 2Ω, 4Ω and 6Ω are connected in series find equivalent resistance.	[2]
9.	Define electric power. Give its commercial units.	[2]
10.	How much work is done to move a charge of 10C across potential of 12V?	[2]

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[Section - B (Chemistry)]

Time : 25 min.   **Max. Marks - 15**

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1. What is a decomposition reaction? [1]

2. Balance the equation :

$Zn(s) + CuSO_4(aq) \rightarrow ZnSO_4(aq) + Cu(s)$ [1]

3. Identify the compound with triple bond :

$C_6H_{10}, C_5H_{12}, C_2H_2$ [1]

4. What is Catenation? [1]

5. What is oxidation? [1]

6. What are amphoteric oxides? Give an example. [1]

7. What is neutralization reaction? [1]

8. Write IUPAC name of following compounds:

a) CH_3CH_2COOH

b) $CH_3CH = CH_2$ [2]

9. Differentiate between exothermic and endothermic reaction. [2]

10. Define the following :-

a) Ore

b) Gangue [1,1]

11. Explain cleansing action of soap. [2]

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[Section - C (Maths)]

Time : 30 min. **Max. Marks - 20**

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[Section - A] [4×2=8]

1. Find the roots of the quadratic equaltion $x^2 - 3x - 10 = 0$.

2. Find the 10th term of the AP:

2, 7, 12, ...

3. Find the distance between the points A(2, 3) and B(4, 1).

4. If P(E) = 0.05, what is the probability of 'not E'?

[Section - B] [4×3=12]

5. Find the area of the sector of a circle with radius 4cm and of angle 30°.

6. A toy is in the form of a cone of radius 3.5cm mounted on a hemisphere of same radius. The total height of the toy is 15.5cm. Find the total surafce area of the toy.

7. One card is drawn from a well shuffled deck of 52 cards. Find the probability of getting a jack of hearts.

8. In an AP, a = 7, $a_{13} = 35$ find S_{13}.

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[Section - D (English)]

Time : 30 min. **Max. Marks - 20**

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Q1. **Read the passage given below and answer the questions that follow:** **(5)**

Once, I was in search of a house. That is nothing new. I am always looking for a house. I never get a house or a room that I like. I had found a hundred faults in the place I was staying. But to whom could I complain? I was asked to leave if I disliked the place. But where could I go? So I continued to live there in resentment. Those were the days when it was almost impossible to get a good house for a low rent. And so I wandered about in search of a house. And suddenly,

there it was! It was a small single-story house, far from the bustle of the town, near the outskirts. There was an ancient board-'To Let'. I liked it. Upstairs, there were two rooms and a balcony and, on the ground floor, four rooms and a bathroom. I was delighted and surprised. Why hadn't anyone taken the house? I was excited. I paid an advance rent of two months and got the key from the owner. The next day, I shut the door of my new house and locked it. I stepped onto the road and shut the gate. I put the key in my pocket and walked on with a sense of pride. First, I met the postman. When I told him of the house I had occupied, he said with a look of fear, "Ooh Sir… in that house…a violent death had taken place. No one stays there. That's why the house has remained vacant." I was taken aback. I asked, "What kind of violent death?" "Isn't there a well in the yard? Someone jumped into it. Since then, there has been no peace or quiet in that house. At night, the doors would shut with a bang; the taps would start running…" "The ghost will hold you by the throat and throttle you," added the postman, "Didn't anyone tell you, Sir?"

Complete these sentences in your own words.

1. It was not something new that the writer was looking for a house because…….

2. The writer was delighted and surprised because…….

3. He walked with a sense of pride because…….

4. The postman had a look of fear on his face because……..

5. There has been no peace or quiet in that house because………

Q2. **Write a paragraph on any of the following topics:** **(5)**

a) Stop Cruelty towards Animals

b) How to Prepare for School

c) Independence Day.

Q3. **Do as directed:** **(10)**

a) The cook cooked food.   (Change into Present Indefinite Tense)

b) He is too young to travel alone.   (Remove 'too)

c) I shall not attend his marriage unless he ….. (invite) me.   (Use correct form of Verb given in the bracket)

d) She dare not …….(disobey) me.   (Use Non-finite Verb)

e) …….. he come to you, give him my message?   (Use appropriate Modal verb)

f) Work hard lest you…... fail.   (Use appropriate Modal verb)

g) Do not borrow. Do not lend.   (Use neither … nor to form a compound sentence)

h) Is she not helping you?   (Change the Voice)

i) The teacher said to the boys, "Why are you making a noise?"   (Change the Narration).

j) gives consent silence.   (Re-arrange the words to make a meaningful sentence)