**Entrance Test Paper**

**ENGLISH**
Complete sentence by choosing the most appropriate word, from the given lettered choices (A to E) below each.

1. Sensory Cells ____________ impulses by producing electrical signals.
   A responding
   B to respond
   C respond to
   D respond
   E responds

2. The first engine ____________ to drive a machine was the steam engine.
   A made use of
   B to make use of
   C of using
   D of making use
   E used of

Choose the lettered word or phrase that is most nearly opposite in meaning to the word in capital letters.

3. SIMULATED:
   A real
   B contrived
   C Unassuming
   D false
   E virtual

**CHEMISTRY**
4. The rate of a chemical reaction is:
   A Determined from a balance chemical equation
   B The change in concentration of products and reactants in a certain amount of time
   C Not possible to determine experimentally
   D Expressed in units of time

5. In neutralization
   A. The base is neutralised
   B. The acid is neutralised
   C. A salt is formed
   D. All of above

**PHYSICS**
6. As the temperature of solid increases, its specific heat:
   A Increases
   B decreases
   C Increases, then decreases
   D Remains the same

7. A particle performs simple harmonic motion of amplitude 0.020 m and frequency 2.5 Hz. What is its maximum speed?
   A 0.008 ms⁻¹
   B 0.50
   C 0.157
   D 0.314

**BIOLOGY**
8. Molds and yeasts are
   A Rodophytes
   B Bryophytes
   C Fungi
   D Ciliates

9. Which compound capture light energy in plants?
   A O₂
   B CO₂
   C H₂
   D Chorophyll

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**Correct Answer**

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