16.08.19 EVERWIN VIDHYASHRAM Marks: 25
STD: X PERIODIC ASSESSMENT- II Time: 1hr

SCIENCE TT

I. Choose the right option from the following statements: 3x1=3

1. A) –The surface of copper powder becomes black
   R) – oxygen is added to copper and copper oxide is formed.
   i) (A) is incorrect ii) R) is true
   iii) Both A) and R) are true iv) Both A) and R) are incorrect
2. A) – Fuse is a safety device which is installed to prevent electrical circuits and possible fires.
   R) – Fuse consists of tin- plated copper wire having low melting point, which melts and breaks the circuit if the current exceeds a safe value.

i) A) is correct R) is the correct explanation of A)
ii) Both A) and R) are incorrect
iii) A) is correct R) is incorrect
iv) A) is incorrect R) is correct.

3. Assertion (A): Evolution is an extremely slow process.
   Reason (R): New characters are accumulated in an organism during its life time.
   i) A is correct R) is the correct explanation of A
   ii) Both A & R are incorrect
   iii) A) is correct (R) is incorrect iv) A) is incorrect R) is correct

II. Fill in the blanks: 4x1=4

1. The corrosion of iron is called _____.
2. ____ generators are used in power stations to generate electricity which is supplied to our homes.
3. Organs of different groups of animals having same origin but perform different functions are called ____.
4. _____ are the tools to study human evolution.

III. Answer in one sentence : 6x1=6

1. Define oxidation with an example
2. What is meant by rancidity?
3. Why AC is preferred over DC?
4. Write one application of Flemings' right hand rule.
5. One of the examples of two analogous organs can be the wings of parrot and i) flipper of whale ii) foreleg of horse iii) front leg of frog iv) wing of house fly. Why?
6. Define the term evolution.

IV. Answer in brief: 4x3=12

1. What is the difference between displacement and double-displacement reactions? Write equations for these reactions.
2. Two coils C1 & C2 are wrapped around a non-conducting cylinder. Coil C1 is connected to a battery and key and C_2 with galvanometer G. State your observation.
   a) i) When key k is pressed on
      ii) When current in the coil C1 is switched off.
   b) When the current is passed continuously through coil C1 (Give reason).
   c) Name and state the phenomenon responsible for the above observation.

5. Write the following terms with one example for each.
   a) Natural selection b) Genetic drift

2. a) What are fossils?
   b) How do we know how old the fossils are?
   c) State two difference between Aquired traits nd Inherited traits.