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**GRAND
TEST**

**SSC EXAMINATION
SCIENCE & TECHNOLOGY (72)
PAPER - II (SET-A)**

**Marks : 40
Duration : 2 Hrs.**

- Note:-** i. All questions are Compulsory.
ii. Figures to the right indicate full marks.
iii. Draw well - labelled diagram wherever necessary.

Q. 1A Answer the following sub-questions.

1. Fill in the blanks and rewrite the complete statements [2M]

- a. Deforestation leads to soil erosion and therefore affects soil _____
b. _____ artery takes the blood to the lungs for oxygenation.

2. State whether the following statements are true or False : [2M]

- a. In human beings the blood goes to the heart in one cycle twice.
b. In frogs thyroid secretion the metamorphose from tadpole adult frog.

3. Find the correction in the given pair and rewrite the question. [1M]

Mammals : _____ : Amphibian : Fishes

B Rewrite the following statements by selecting the correct options : [5M]

1. In hydra, the type of reproduction is _____
(a) Binary fission (b) Budding (c) Multiple fission (d) None of these
2. cellular respiration takes place in _____
(a) Lysosome (b) Mitochondrion (c) chlorophyll (d) Ribosome
3. The _____ gas is released in more quantity by plants during day time.
(a) Carbon-dioxide (b) Oxygen (c) chlorine (d) Ammonia
4. A Solution of $Al_2(SO_4)_3$ in water is _____
(a) Blue (b) pink (c) Green (d) colourless
5. Ethanoic acid which solidifies below 290K is known as _____
(a) ice (b) solid acetic acid (c) Glacial acetic acid (d) ethyl acetic

Q. 2 Attempt any five questions**[10M]**

1. What are connecting links ? Give two examples of it
2. Distinguish between voluntary and Involuntary movements.
3. Explain with the help of balanced chemical equation what happens when a piece of copper is strongly heated in air ?
4. How are fats digested in the body?
5. Name the receptors of the tongue and nose.
6. Give reason : In the sexual mode of reproduction, greater diversities are generated.

Q. 3 Attempt any five questions :**[15]**

1. Explain the formation of magnesium ion from an atom of magnesium.
2. What are villi? What is their function
3. Explain the mechanism of cleaning action of soaps.
4. Sunil dipped a coin in a solution of silver nitrate. After some time he saw the silver shine on the coin. Why? Give the balanced chemical equation for the same and also name the type of reaction
5. Draw a diagram of longitudinal section of flower and label the following parts.
(a) carpel (b) anther (c) ovary
6. Explain the disadvantages of larger size family life.

Q. 4 Attempt any one of the following.**[5M]**

1. Define eco-efficiency what are the ways to achieve it?
2. What is homologous series? state any four characteristics of a homologous series?