

Revision PT4

I. Answer the following:

1. Define electroplating.

Ans. Process of depositing 1 metal over another with the help of electricity.

2. Is lemon juice an electrolyte or non electrolyte? Justify your answer.

Ans. Yes, because it is an acid.

3. Differentiate between conductor and electrolyte.

Ans.

CONDUCTOR	ELECTROLYTE
Allows electricity to pass through it in solid state	Allows electricity to pass through it in molten or liquid state

4. How does sitar player produce tuneful sound?

Ans.

5. Give 2 examples for internal fertilization and external fertilization.

Ans. Internal Fertilization: Frog, Fish

External Fertilization: Humans, Birds

6. Write two secondary sexual characteristics that develop in boys and girls at puberty.

Ans. Girls: Body shapes Rounder, Menstruate. Boys: Body becomes muscular, Voice Deepens

7. What is metamorphosis?

Ans. Animals that undergo a series of changes physically before it becomes an adult.

II. Find the analogy:

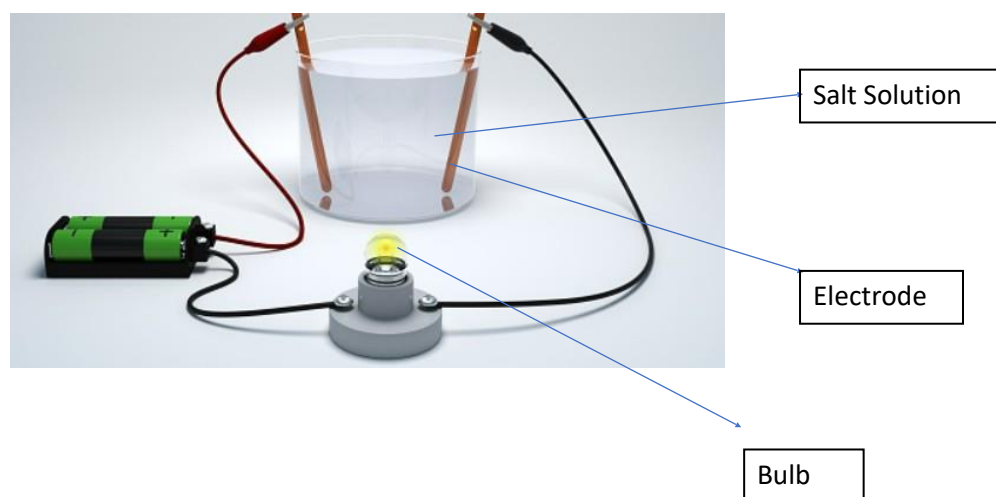
- a) Mother : XX :: Father : XY

- b) Testosterone : Male hormone :: estrogen and progesterone : Female hormone
- c) Insulin : Pancreas :: thyroxine : Thyroid

III. Fill in the blanks:

1. External fertilization takes place in Water.
2. Fertilization in human beings takes place in the Fallopian Tube.
3. Carbon electrodes are used in the electrolysis of water.
4. In the electrolysis of copper sulphate Copper will be formed in anode and Oxygen will be formed in cathode.

IV. Observe the given diagram and answer the following:



- a) Will the bulb glow in this circuit?

Ans. Yes, it will glow in this circuit as salt solution is an electrolyte.

- b) Which substance will get deposited to the anode and cathode?

Ans. Hydrogen at cathode and oxygen at the anode.

- c) What will happen if salt solution is replaced by distilled water? Give appropriate reason for your answer.

Ans. The bulb will not glow because in salt solution salt is an electrolyte hence it allows electricity but in distilled water there is no salt dissolved in it so it is not