



# BURARI PUBLIC SCHOOL

a venture with **UNIQUE**

PT- III ASSIGNMENT (2024-25)

CLASS: VIII

SUBJECT- SCIENCE

Date / /

Time: 1 Hr.

M.M. 20

Name: ..... Roll No..... T. sign.....

## Instructions:

- All questions are compulsory.
- Internal choices have been provided.

### 1) Choose the most appropriate answer:-

4x1/2=2

1. The fusion of the male and female gametes results in the formation of:

- (a) Zygote (b) Embryo (c) Foetus (d) None of these

2. Asexual reproduction takes place in

- (a) Hydra  
(b) Amoeba  
(c) Cats  
(d) Both (a) and (b)

3. Electrolysis is used for

- (a) Extraction of metals  
(b) Manufacturing of chemicals  
(c) Refining of metals  
(d) All of these

4. Which of the following will conduct electricity?

- (a) Tap water (b) Lemon juice  
(c) Acidulated water (d) All of these

### 2) Give answer in one word for the following:

4x1/2=2

- Animal that undergoes internal fertilisation.
- Viviparous animals.
- Substance which conducts electricity when dissolved in water.
- A metal wire through which electric current enters or leaves an electrolytic solution.

### 3) Answer the following in brief: (Do any 4)

4x1=4

- What is cloning?
- Why is reproduction an essential process?
- What is electrolysis?
- What is the full form of LED?
- How can rusting of iron objects be prevented?

**4) Case study:****3x1=3**

The process of reproduction is essential for the survival of every individual and continuation of species. Animals reproduce sexually and asexually. Some modes of asexual reproduction are binary fission in amoeba and budding in hydra. Humans reproduce sexually by producing gametes; the male gamete is called sperm and the female gamete is called ovum. These gametes fuse to form a zygote, which grows into an embryo, which further develops in a foetus.

**A) An example of asexual reproduction is**

- a) Binary fission    b) Budding    c) Fragmentation    d) All of these

**B) Name the part in female reproductive system where fertilisation takes place.****C) In vitro fertilisation takes place inside the fallopian tube. (True/False)****5) Distinguish between: (Do any 2)****2x1=2**

- Testis and Ovary
- Electrolyte and Non-electrolyte
- Cathode and Anode

**6) Assertion-Reason based questions:****2x1=2**

The question consists of two statements as Assertion (**A**) and Reason (**R**). While answering the question, you are required to choose any one of the four choices:

- Both A and R are correct and R is the **correct** explanation of A.
- Both A and R are correct and R is the **incorrect** explanation of A.
- A is **correct** but R is **incorrect**.
- Both A and R are **incorrect**.

**1. Assertion (A):** The process of depositing a thin layer of a superior metal over a cheaper material is called electrolysis.

**Reason (R):** Iron is electroplated on chromium.

**2. Assertion (A):** The uterus is a reproductive organ in males.

**Reason (R):** The foetus develops in the fallopian tube.

**7) Answer the following in detail: (Do any 2)****2x1.5=3**

- Explain the parts of human sperm. Support your answer with a diagram.
- What is the full form of IVF. Explain the technique.
- Explain how can you show that water is made up of hydrogen and oxygen combined together in the ratio 2:1.

**8) Give reason/answer for the following:****2x1=2**

- Why does tap water conducts electricity but distilled water does not?
- What is the role of placenta?