

How do Organisms Reproduce? - Class X - Paper Set No. 1

- Which of the following is a method of asexual reproduction in amoeba?
 - Budding
 - Fragmentation
 - Binary fission
 - Multiple fission
- What role does DNA copying play in reproduction?
 - Provides energy to cells
 - Ensures identical offspring
 - Creates genetic variations
 - Supports cellular respiration
- Which of the following organisms reproduces through budding?
 - Hydra
 - Paramecium
 - Planaria
 - Rhizopus
- What is the main purpose of the process of pollination?
 - Fertilisation of ovules
 - Transfer of pollen to stigma
 - Seed dispersal
 - Food production in plants
- Where does fertilisation occur in the human female reproductive system?
 - Uterus
 - Ovary
 - Fallopian tube
 - Cervix
- Which hormone is responsible for changes during puberty in boys?
 - Estrogen
 - Progesterone
 - Testosterone
 - Insulin
- Which method of reproduction leads to greater genetic variation?
 - Budding
 - Binary fission
 - Vegetative propagation
 - Sexual reproduction

8. What are the main functions of the ovaries in human females?
- (a) Producing testosterone (b) Maturing sperm cells
(c) Releasing eggs and producing hormones (d) Supporting embryo growth
9. What is the main benefit of vegetative propagation in plants?
- (a) Increases genetic diversity (b) Reduces plant growth time
(c) Prevents seed formation (d) Decreases disease resistance
10. Which type of cell division is responsible for creating gametes?
- (a) Mitosis (b) Meiosis
(c) Binary fission (d) Multiple fission

Answer Key for Paper Set No. 1:

1. (c) Binary fission
2. (c) Creates genetic variations
3. (a) Hydra
4. (b) Transfer of pollen to stigma
5. (c) Fallopian tube
6. (c) Testosterone
7. (d) Sexual reproduction
8. (c) Releasing eggs and producing hormones
9. (b) Reduces plant growth time
10. (b) Meiosis