

Multiple-Choice Questions (MCQs)

Asexual Reproduction

1. Which of the following is an example of binary fission?
 - a) Hydra
 - b) Amoeba
 - c) Yeast
 - d) RhizopusAns: b) Amoeba
2. In which type of reproduction are the offspring genetically identical to the parent?
 - a) Sexual reproduction
 - b) Budding
 - c) Fragmentation
 - d) Both b and cAns: d) Both b and c
3. Which of these reproduces by spore formation?
 - a) Hydra
 - b) Plasmodium
 - c) Penicillium
 - d) AmoebaAns: c) Penicillium
4. Hydra reproduces asexually by:
 - a) Binary fission
 - b) Spore formation
 - c) Budding
 - d) FragmentationAns: c) Budding
5. What is the name of the specialized cells used in spore formation in Rhizopus?
 - a) Zoospores
 - b) Gametes
 - c) Sporangia
 - d) ConidiaAns: c) Sporangia
6. Which organism reproduces by multiple fission?
 - a) Amoeba
 - b) Paramecium
 - c) Plasmodium
 - d) HydraAns: c) Plasmodium
7. The process in which a new organism develops from an outgrowth of a parent is called:
 - a) Regeneration
 - b) Budding

- c) Fragmentation
- d) Spore formation

Ans: b) Budding

8. Vegetative propagation in potato occurs through:

- a) Leaves
- b) Roots
- c) Stem tubers
- d) Bulbs

Ans: c) Stem tubers

9. Which part of Bryophyllum helps in vegetative propagation?

- a) Flowers
- b) Roots
- c) Leaves
- d) Stem

Ans: c) Leaves

10. The process of asexual reproduction in which a parent body divides into two equal halves is known as:

- a) Budding
- b) Binary fission
- c) Spore formation
- d) Fragmentation

Ans: b) Binary fission

Sexual Reproduction in Plants

11. In flowering plants, the male gametes are produced in:

- a) Ovary
- b) Pollen grains
- c) Ovule
- d) Stigma

Ans: b) Pollen grains

12. The transfer of pollen from anther to stigma is called:

- a) Fertilization
- b) Pollination
- c) Germination
- d) Budding

Ans: b) Pollination

13. The process of fusion of male and female gametes is known as:

- a) Pollination
- b) Fertilization
- c) Germination
- d) Fragmentation

Ans: b) Fertilization

14. What is double fertilization in flowering plants?

- a) Fusion of two male gametes
- b) Fusion of male gametes with two different nuclei
- c) Fusion of one male gamete with two egg cells
- d) None of these

Ans: b) Fusion of male gametes with two different nuclei

15. Which of the following is an agent of cross-pollination?

- a) Wind
- b) Water
- c) Insects
- d) All of the above

Ans: d) All of the above

16. Which structure develops into fruit after fertilization?

- a) Ovule
- b) Ovary
- c) Stigma
- d) Petals

Ans: b) Ovary

17. Which part of the flower protects it during the bud stage?

- a) Sepals
- b) Petals
- c) Ovary
- d) Filament

Ans: a) Sepals

18. Which of the following flowers has both male and female reproductive structures?

- a) Papaya
- b) Mustard
- c) Watermelon
- d) Mulberry

Ans: b) Mustard

19. Which is the male reproductive organ of a flower?

- a) Ovary
- b) Stigma
- c) Stamen
- d) Ovule

Ans: c) Stamen

20. The ovule of a flower contains:

- a) Pollen grains
- b) Egg cell
- c) Anther
- d) Sepals

Ans: b) Egg cell

Human Reproduction

21. Which organ in males produces sperm?

- a) Prostate gland
- b) Penis
- c) Testes
- d) Scrotum

Ans: c) Testes

22. What is the role of the fallopian tube in females?

- a) Sperm production
- b) Fertilization of egg
- c) Attachment of embryo
- d) Hormone production

Ans: b) Fertilization of egg

23. Which hormone is responsible for secondary sexual characteristics in males?

- a) Estrogen
- b) Testosterone
- c) Progesterone
- d) Oxytocin

Ans: b) Testosterone

24. What is the function of the placenta?

- a) Excretes waste from the embryo
- b) Transports nutrients and oxygen to the embryo
- c) Protects the embryo
- d) Facilitates fertilization

Ans: b) Transports nutrients and oxygen to the embryo

25. Where does fertilization occur in the human female reproductive system?

- a) Ovary
- b) Uterus
- c) Fallopian tube
- d) Cervix

Ans: c) Fallopian tube

26. Which of the following is an example of external fertilization?

- a) Humans
- b) Frogs
- c) Birds
- d) Insects

Ans: b) Frogs

27. Which hormone triggers ovulation in females?

- a) FSH
- b) LH
- c) Progesterone
- d) Oxytocin

Ans: b) LH

28. Which is the site of implantation of the fertilized egg?

- a) Ovary

- b) Fallopian tube
- c) Uterus
- d) Vagina

Ans: c) Uterus

29. Which of the following is a contraceptive method?

- a) Oral pills
- b) Copper-T
- c) Condom
- d) All of the above

Ans: d) All of the above

30. The structure formed by fertilization of an egg and sperm is called:

- a) Embryo
- b) Zygote
- c) Blastula
- d) Foetus

Ans: b) Zygote

Miscellaneous

31. Which of the following organisms can regenerate their lost body parts?

- a) Hydra
- b) Planaria
- c) Starfish
- d) All of the above

Ans: d) All of the above

32. What is the chromosome number in a human sperm cell?

- a) 46
- b) 44
- c) 23
- d) 22

Ans: c) 23

33. Which method of reproduction involves two parents?

- a) Sexual reproduction
- b) Budding
- c) Spore formation
- d) Binary fission

Ans: a) Sexual reproduction

34. DNA copying during reproduction is essential because it:

- a) Helps the organism grow
- b) Helps in repair
- c) Ensures the transfer of traits
- d) Produces variations

Ans: c) Ensures the transfer of traits

35. Which plant can propagate through its roots?

- a) Mango**
- b) Dahlia**
- c) Potato**
- d) Bryophyllum**

Ans: b) Dahlia