

Board – CBSE

Class – 10

Topic – How do Organism Reproduce

1. What is the importance of DNA copying in reproduction?
2. Why is variation beneficial to the species but not necessarily for the individual?
3. How does binary fission differ from multiple fission?
4. How will an organism be benefited if it reproduces through spores?
5. Can you think of reasons why more complex organisms cannot give rise to new individuals through regeneration?
6. Why is vegetative propagation practiced for growing some type of plants?
7. Why is DNA copying an essential part of the process of reproduction?
8. How is the process of pollination different from fertilization?
9. What is the role of the seminal vesicles and the prostate gland?
10. What are the changes seen in girls at the time of puberty?
11. How does the embryo get nourishment inside the Mother's body?
12. If a woman is using a copper-T will it help in protecting her from sexually transmitted diseases?
13. Asexual reproduction takes place through budding in:
  - (a) Amoeba
  - (b) Yeast
  - (c) Plasmodium
  - (d) Leishmania.
14. Which of the following is not a part of the female reproductive system in human beings?
  - (a) Ovary
  - (b) Uterus
  - (c) Vas deferens
  - (d) Fallopian tube
15. The anther contains:
  - (a) Sepals
  - (b) Ovules
  - (c) Carpel
  - (d) Pollen grains.

16. Name the largest cell present in the human body.
17. What is regeneration? State a reason why a more complex organism cannot give rise to new individuals through this method.
18. What is reproduction? What are its two types? Which one of the two confers new characteristics on the offspring and how?
19. (a) Explain the terms:
  - (i) Implantation (ii) Placenta
  - (b) What is the average duration of human pregnancy?
20. What are sexually transmitted diseases?  
Name four such diseases. Which one of them damages the immune system of human body?
21. List any four reasons for vegetative propagation being practiced in the growth of some type of plants.
22. Write the full form of DNA. Name the part of the cell where it is located. Explain its role in the process of reproduction of the cell.
23. Explain vegetative propagation with the help of two examples. List two advantages of vegetative propagation.
24. List any three differences between pollination and fertilization.
25. What are the advantages of sexual reproduction over asexual reproduction?
26. What are the functions performed by the testes in human beings?
27. Why does menstruation occur?
28. What are the different methods of contraception?
29. How are the modes for reproduction different in unicellular and multicellular organisms?
30. How does reproduction help in providing stability to populations of species?
31. (i) What is fertilization? Distinguish between external fertilization and internal fertilization.  
(ii) What is the site of fertilization in human beings?
32. Define the terms unisexual and bisexual giving one example of each.
33. Differentiate between 'self-pollination' and 'cross-pollination'. Describe double fertilization in plants.
34. What is the effect of DNA copying which is not perfectly accurate on the reproduction process?
35. What is 'reproduction'? Mention the importance of DNA copying in reproduction.

36. "Variations that confer an advantage to an individual organism only will survive in a population." Justify.
37. Name one sexually transmitted disease each caused due to bacterial infection and viral infection. How can these be prevented?
38. (a) In the human body what is the role of  
(i) seminal vesicles, and (ii) prostate gland?  
(b) List two functions performed by testis in human beings.
39. Illustrate the following with the help of suitable diagrams:  
(i) Regeneration in Planaria.  
(ii) Budding in Hydra.
40. Illustrate the following with the help of suitable diagrams:  
(i) Binary Fission in Amoeba.  
(ii) Leaf of Bryophyllum with buds.
41. Illustrate the following with the help of suitable diagrams:  
(i) Spore formation in Rhizopus.  
(ii) Multiple fission in Plasmodium.
42. (a) Draw a diagram showing germination of pollen on stigma of a flower.  
(b) Label pollen grain, male germ-cells, pollen tube and female germ-cell in the above diagram.  
(c) How is zygote formed?
43. Mention the mode of reproduction used by  
(a) Amoeba (b) Planaria
44. Name the information source of making proteins in the cell. State two basic events in reproduction.
45. What could be the reasons for adopting contraceptive methods?