

12th Zoology Important Guess Questions

1. Draw a well-labelled diagram of the male reproductive system and explain the male reproductive system.
2. Draw a well-labelled diagram of the female reproductive system.
3. Write a short note on Testis?
4. Write a short note on Ovaries?
5. Describe the steps of spermatogenesis and also differentiate between spermiogenesis and spermiation.
6. What is the menstrual cycle? Explain the ovarian and uterine changes that occur during a menstrual cycle in a human female under the influence of pituitary and ovarian hormones, respectively.
7. Explain the process of fertilization in humans?
8. Describe the gestation period and parturition. From where does the signal for parturition originate in humans?
9. Define the term lactation and colostrum. Why is it important to feed newborn babies in the initial period of their growth?
10. What are the consequences of delay in treatment of STIs? What principles should be followed to be free from sexually transmitted infections?

11. Explain MTP and state its significance?
12. What is contraception? Discuss various methods of contraception?
13. Explain MTP and state its significance.
14. What are STDs? How are these diseases spread? Give examples of STDs.
15. What are contraceptives? List any four characteristics of ideal contraceptives.
16. Define infertility. State any two reasons responsible for the cause of infertility.
17. Explain IVF-ET?
18. Explain the process of Haplodiploidy sex determination in honey bees?
19. Discuss two Mendelian disorders: color blindness and hemophilia in detail.
20. Briefly explain the Mendelian disorder phenylketonuria.
21. Write a short note on causes and symptoms of sickle cell anemia.
22. Mention the chromosomal complement and characteristics of a person affected with Down's syndrome, Turner's syndrome, and Klinefelter's syndrome?
23. Define pedigree analysis. (a) Mention a few applications of pedigree analysis. (b) Show some of the important standard symbols used in pedigree analysis.

24. Give an account of Urey and Miller's experiment and its significance.
25. Define Natural Selection & its types.
26. What is the Hardy-Weinberg principle?

(a) Write the mathematical expression of Hardy Weinberg principle

(b) What would you interpret if the value of 1 in the equation gets deviated?

(c) List the factors which affect genetic equilibrium of Hardy Weinberg population and briefly explain each

27. What is genetic drift? Briefly explain its types?

28. Trace out the process of evolution of man in detail?

29. What is adaptive radiation? Give an example?

30. What is Convergent Evolution? Give an example?

31. Differentiate between Homologous and Analogous organs? Briefly explain how these are considered as an evidence of evolution.

32. Describe the following diseases along with their causative agent, mode of transmission, symptoms and preventive measures?

(a) Typhoid

(b) Amoebiasis

(c) Ascariasis

(d) Filariasis

33. Describe AIDS, how it is transmitted, its prevention and diagnostic tests used for its diagnosis
34. Write short note on malaria?
35. Describe cancer as a major cause of death along with its causes and possible treatment?
36. Differentiate between:
 - (a) Innate immunity and acquired immunity
 - (b) Active and passive immunity
37. Describe the structure of antibody
38. Briefly explain Lymphoid organs and their types
39. Explain briefly about:
 - (a) Opioids
 - (b) Cannabinoids
 - (c) Coca alkaloids
40. What are restriction endonucleases and what are their uses?
41. Explain Gel electrophoresis and its uses.
42. What is PCR? Describe its steps along with their types.
43. What are bioreactors? Explain their types.
44. What do you mean by Golden Rice?
45. What is Gene Therapy? Give one example.
46. Write down the steps of preparation of Human Insulin artificially.