

DEPARTMENT OF ZOOLOGY  
QUESTION BANK

Semester 4 – Complementary Zoology  
Applied Zoology

1 mark questions

1. Tilapia
2. Egg scatterers
3. *Pontius densonii*
4. State fish of Kerala
5. Dolly
6. Mention any two significances of catla as a culture fish
7. Name two ornamental fishes
8. Name two aquarium plants
9. Highlight the two features of human genome project
10. Mariculture
11. Cage culture
12. Genetic counseling
13. Chandrika
14. Pebrine
15. Swarming
16. Pollen Trap
17. What is dearth period?
18. Name the major pests of honey bees.
19. What is royal jelly?
20. What is propolis?
21. Which are the major indigenous breeds of fowl?
22. Artificial insemination
23. Artificial brooding
24. Ranikhet
25. Fowl pox
26. Coccidiosis
27. Karyotype
28. What is an ideogram?
29. What is the major function of ovum?
30. Vitellogenesis
31. Centrolecithal egg
32. Fertilization cone
33. penetration pathway
34. Amphimixis

35. Morula
36. Discoblastula
37. Blastocyst
38. Trophoblast
39. Embryonic induction

2 mark questions

1. Shellfish culture
2. Pearl culture
3. Aquarium plants
4. Gene cloning
5. Mention any two ways to prevent algal growth in aquarium. Name any four common fishes used for culture in Kerala
6. Mention two features of any two fishing crafts
7. Highlight the significance of human gene therapy
8. Write notes on gene cloning
9. Composite fish culture
10. Species of silkworm
11. Stiffling
12. Reeling
13. Throwing
14. Short note on pests of silkworm.
15. Species of honeybee
16. What is a brood cycle?
17. Modification of hind legs of honey bee
18. What are the duties of worker bees?
19. Altruism in honey bees
20. What is bee pasturage?
21. What are methods to control the pests of honey bee?
22. Uses of honey
23. What is bee wax? What are its uses?
24. What are the uses of bee venom?
25. What factors should be considered while selecting dairy animals?
26. Rinderpest
27. What is pedigree analysis?
28. Down Syndrome
29. Klinefelter's syndrome
30. Turner Syndrome
31. Sickle cell anemia
32. Phenylketonuria
33. Genetic Counseling

34. Polarity of egg
35. What are cleidoic eggs?
36. Differentiate between mosaic and regulative egg.
37. What is capacitation?
38. Discoidal Cleavage
39. Superficial Cleavage
40. Differentiate between determinate and indeterminate.
41. Epiboly
42. Differentiate between convergence and divergence.
43. What is infiltration?
44. Differentiate between reproductive and therapeutic cloning.
45. Amniocentesis
46. Test tube baby
47. DNA Ligases
48. Cloning Vectors
49. Plasmids

4 mark questions

1. Explain the various steps in pearl culture
2. Explain the setting up of a freshwater aquarium unit
3. Briefly describe composite fish culture
4. Briefly describe human gene therapy and its future prospects
5. Explain the hatching and rearing techniques in ornamental fish culture
6. Briefly describe any four fishing gears
7. Economic importance of capture fishes
8. Give an account of induced breeding in pisciculture
9. Write a note on various diseases inflicting silkworms.
10. Write a note on social organization of honey bees?
11. What are the major bee keeping equipments? Explain briefly.
12. Explain the process of honey extraction and processing.
13. Write a note on pest and disease management of apiary.
14. Write a note on economic uses of bee products.
15. Explain the various methods adopted for poultry breeding.
16. What are the methods followed in rearing of poultry?
17. Explain about diseases inflicting poultry and their management.
18. How will you establish a dairy farm?
19. Write a note on diseases and their management in dairy animals.
20. Classify eggs on the basis of amount of yolk and distribution pattern of yolk
21. Explain the process of sperm reaction.
22. How is polyspermy prevented?

23. What is cleavage? Explain types of cleavage.
24. Explain various patterns of cleavage
25. What is blastulation? Explain the types of blastula.
26. Write a note on Embolic movements.
27. Write a note on cloning experiments in mammals
28. Write a note on stem cell therapy
29. Explain various methods of prenatal diagnosis
30. Write a note on invitro fertilization and embryo transfer technique
31. What are restriction enzymes? Give its properties
32. Write a note on human gene project
33. Write a note on human gene therapy

#### Essay questions

1. Give an account of traditional method of aquaculture with special reference to Kerala
2. Explain the history of cloning experiments in man and animals
3. Give an account of ornamental fish culture
4. Write an essay on mussel culture
5. Write an essay on construction and management of pond for pond culture
6. Describe the steps involved in pearl culture
7. Write notes on fishing crafts and gears
8. Give an account on shell fish culture
9. Write an essay on techniques in sericulture
10. Write an essay on Apiary management.
11. Write an essay on breeding and rearing of poultry.
12. Write an essay on genetic disorders of man
13. Write an essay on the process of fertilization
14. Write an essay on gastrulation.
15. Write an essay on gene cloning