

## ADVANCED ZOOLOGY (AZBC401T)

**Name of the Department:** Zoology

**Name of the subject:** Advanced Zoology

**Subject code:** (AZBC401T)

**Class:** II UG Biochemistry

**Staff (Handling) Name:** Mrs. P. Thenmozhi

Dr. A. Arulprakash

### 2 (Marks)

1. Define taeniasis
2. Comment on urochordata
3. Define Haemocyanin
4. Explain endopeptidases
5. Describe point mutation
6. Comment on Eugenics
7. Define Spermatogonia
8. Comment on Mesolecithal egg
9. Define Temporary commensalism
10. What is Vertical stratification?
11. Define sponges
12. Comment on tape worm
13. Define cleavage
14. Define vacuoles
15. What are villi?
16. Comment on euphenics
17. Define blastula
18. What is organogenesis
19. What is stenohaline?
20. Define TSH.
21. Define chordates
22. Comment on the locomotary organ in earthworm
23. Write any four respiratory pigments
24. What is the composition of blood?
25. What is gene mutation?
26. Comment on eugenics
27. What is spermatogonia?
28. Define gametogenesis.
29. Comment on trophosphere
30. Define mortality.

31. Define amphibians.
32. Define prochordates
33. Comment on islets of langerhans
34. Define adenohipophysis
35. What is chromosomal aberration?
36. Comment on genetic code
37. What is oogenesis?
38. Define cleavage.
39. Define natality.
40. What is ecological succession?
41. Myogenic
42. Pheromones.
43. Cistron
44. Idiogram
45. Pedigree Chart.
46. Fixation
47. Menopause
48. Oogenesis
49. Islets of langerhans
50. Blood Pressure
51. Define ATP
52. Define ADP
53. Define ECG

**5 (Marks)**

1. Briefly describe the exo-erythrocytic cycle in plasmodium vivax
2. Describe the structural adaptations of amphibians.
3. Define regeneration. Comment on the different types of regeneration
4. Discuss about the respiratory pigments
5. Write short notes on parasitism.
6. Describe the fine structure of gene.
7. What is ecological niche? List out its advantages
8. Describe the mechanism of fertilization.
9. Classify the invertebrates.
10. Briefly explain Bohr's effect
11. Comment on ECG.
12. Describe the fine structure of gene.
13. List out the different types of egg and comment on its significance.
14. Explain briefly about cleavage.

15. Write a note on the reproductive glands in mammal
16. Write short note on (i) parasitism and (ii) commensalism.
17. Classify the chordates.
18. Briefly explain the ultrastructure of muscles
19. Describe the mechanism of exchange of gases
20. What are the applications of genetic engineering?
21. Briefly explain about the pattern of cleavage.
22. Explain briefly about Menopause.
23. Write short note on population ecology.
24. Write short note on (i) antagonism and (ii) symbiosis.
25. Write an account on classification, structural and functional details of Plasmodium.
26. Discuss on the composition and function of blood.
27. Explain in detail on the Pheromones.
28. Give an account on the Embryo manipulation.
29. Write a short note on the Organogenesis.
30. Discuss in detail on applications of pedigree chart.
31. Give an account on the Bohr's effect.
32. Describe in detail on the Antagonism.
33. Detailed account on structure of nephron
34. Structural details of neurons

### **10 (Marks)**

1. Describe in detail on the properties and functions of respiratory Pigments.
2. Discuss on genetic engineering and its applications in human being.
3. Explain the classification of animals based on the nature of excretory Products.
4. Describe about the conduction of nerve impulse
5. Write a detailed account on the histological techniques.
6. With a neat diagram describe in detail about the life cycle of *Taenia solium*.
7. Elaborately explain about digestion and absorption of protein.
8. Describe in detail about the development of heart in chick.
9. DNA as a genetic material – Discuss.
10. With a neat diagram describe in detail about the life cycle of *Plasmodium vivax*.
11. Elaborately explain the Hardy-Weinberg law principles and its applications.
12. Describe in detail about the development of eye in chick.
13. Describe the structure and functions of pituitary gland.
14. Describe the structure and functions of thyroid gland.
15. With a neat diagram describe in detail about the development of heart in chick.
16. Give a detailed account on the structure of an animal community
17. Elaborately explain the Hardy Weinberg law and its applications
18. Describe in detail about the structure, types and functions of muscles

19. With a neat diagram describe in detail about the development of eye in chick.
20. Write short notes on the following (i) Stratification and its types (ii) Commensalism and its types
21. Elaborately explain the mechanism involved in the digestion and absorption of proteins.
22. Detailed on structure and functions kidney
23. Justify DNA as the genetic material by Griffith's experiment.
24. Describe about the theories of muscle contraction