

Semester-VI

Paper-601 Animal Behaviour

1. What is Ethology? Who coined the term?
2. Write about the study of Ethology.
3. What are the methods of Ethology?
4. Write about the homing behaviour of animals.
5. What is the neural control of behaviour?
6. What is the hormonal control of behaviour?
7. Write a note on circadian rhythm.
8. How many types of learning can be seen in nature?
9. What is habituation?
10. What is conditional reflex?
11. Write about insight learning.
12. Why reasoning is the highest type of learning?
13. Write a note on imprinting.
14. Write a note on social organization of animal. What are the

- advantages and disadvantages of society?
15. Write a note on dance language of honey bee.
16. Write briefly about the social behaviour of honey bee.
17. What are the functions of pheromones?
18. Describe different types of biological drives
19. What are motivational patterns

Paper-602 Evolution

1. What is Zoogeography? Mention the zoogeographical realms of A.R. Wallace along with the sub regions.
2. What is barrier? Write about the effect of different barriers on the distribution of animals.
3. Mention the sub regions of Oriental region and give an idea of different fauna found in these sub regions.
4. What are fossils? Describe different ways of fossil formation.
5. What do you mean by organic evolution? Describe the embryological evidences in support of organic evolution.
6. Which era is called golden era of reptiles?
7. Name the connecting link between man and apes?
8. What is living fossil?

Adaptation

1. What are the principles of adaptation?
2. What is adaptation? Write about different types of adaptations.
3. What is primary aquatic adaptation?
4. What is secondary aquatic adaptation?
5. What is terrestrial adaptation? Describe briefly about different

- types of terrestrial adaptations.
6. State briefly about volant adaptations of birds.
 7. What do you mean by adaptive radiation of mammal?
 8. What is animal colouration? How many types of colours can be seen in nature?
 9. What are the uses of colouration in animals?
 10. What is camouflage of animal?
 11. What is warning colouration?
 12. What do you mean by mimicry? Write about a note on it.
 13. What is alluring colouration?

Paper-603 Economic Zoology

1. Write about the morphology of different members of a bee colony.
2. What are the economic products obtained from apiculture?
3. What is Zoogeography? Mention the zoogeographical realms of A.R. Wallase along with the sub regions.
4. What is barrier? Write about the effect of different barriers on the distribution of animals.
9. Mention the sub regions of Oriental region and give an idea of different fauna found in these sub regions.
6. What are fossils? Describe different ways of fossil formation.

Paper-604 Biotechnology

1. What is colorimeter? How does it work?
2. What is the principle of colorimeter?
3. What are the applications of a colorimeter?

4. What is spectrophotometer? What is the principle of spectrophotometer?
5. What are the applications of spectrophotometer?
6. What is ultracentrifuge? What are the uses of ultracentrifuge?
7. What is the working principle of TEM? Write the applications.
8. What is chromatography?
9. What are the types of paper chromatography? What are the uses of paper chromatography?
10. What is the advantage of column chromatography?
11. Write the principle behind gas chromatography.
12. Write the procedure of thin layer chromatography. What are the advantages and disadvantages of thin layer chromatography
13. What is the principle of HPLC. Write about the uses.
14. What is microtomy and what is microtome?
15. What is fixation? What is the principle behind fixation?
16. What is dehydration?
17. What is embedding?
18. What are the applications of microtomy?
19. What do you mean by genetic engineering? Briefly mention the recombinant DNA technology.
20. What are the basic differences between tissue culture and cell culture
21. Write about different types of media for cell culture
22. What are the cell harvesting methods
23. What are the applications of cell culture
24. Write the differences between serum containing media and

serum free media

25. What is suspension culture

Bioinformatics and Computer Application

1. Describe about the operating system DOS and UNIX.
2. What is an operating system? Is it software? Describe any operating system.
3. Write about the computer aided techniques in statistical analysis.
4. Why C++ is called an object-oriented programming language? What are the advantages of using C++ over other programming language?
5. Write brief note on the following-
 - a) WINDOWS
 - b) data analysis
 - c) C++