

HOME ASSIGNMENT

PAPER-601- ANIMAL BEHAVIOUR

B.SC 6TH SEMESTER

SUBJECT: ZOOLOGY (MAJOR)

TOTAL MARKS: 30

ANSWER THE FOLLOWING QUESTIONS:

1. What do you mean by Ethology? 1
2. The animal's choice of a place to live is called ___ selection. 1
3. Define behaviour. 2
4. What is social biology? 2
5. Mention some methods of ethology. 2
6. Give 4 advantages of visual signals. 3
7. Difference between Neural and Hormonal control of behaviour. 4
8. Describe types of learning behaviour in details. 5

Or

Describe Scope of ethology? Write in short homeing behaviour.

9. Define sign stimulus. How sign stimulus is correlated with fixed action pattern and motivation? 2+3=5

Or

What do you mean by biological communication? Discuss visual and acoustic means of communication. 1+4=5

10. Discuss the circadian rhythm in animals. 5

Or

Explain the social organisation and social interactions.

HOME ASSIGNMENT

PAPER-602-EVOLUTION AND ADAPTATION

B.SC 6TH SEMESTER

SUBJECT-ZOOLOGY (MAJOR)

TOTAL MARKS- 30

ANSWER THE FOLLOWING QUESTIONS:-

1. What do genes have to do with evolution? 1
2. What do you mean by species? 1
3. Are evolution and "survival of the fittest" the same thing? 2
4. What is colouration? 1
5. Define fossils and write the significance of fossils. 2+3=5
6. What are the factors that influence the animal distribution? 5
7. Discuss the postulates of Darwinism or Neo-Darwinism in details. 5

Or

Describe the embryological evidences of organic evolution.

8. What is adaptive radiation? Discuss the adaptive radiation in mammals. 1+4=5

Or

Define microevolution. Provide examples to support this concept. How does it differ from mega evolution? 1+2+2=5

9. Describe the different types of adaptation with examples. 3+2=5

Or

Write a note on Cryptic and Warning colouration. 5

HOME ASSIGNMENT

PAPER-603-ECONOMIC ZOOLOGY

B.SC 6TH SEMESTER

SUBJECT- ZOOLOGY (MAJOR)

TOTAL MARKS-30

ANSWER THE FOLLOWING QUESTIONS:-

1. What is the scientific name of Muga? 1
2. Name the scientific name of Honeybee? 1
3. What do you mean by Aquaculture? 2
4. Mention some diseases and their preventive measures of Eri silkworm. 2+2=4
5. Write a short note on Lac culture. 3
6. Difference between Muga and Eri silkworm rearing. 2+2=4
7. Briefly describe the life history of Honeybee. 5
Or
Briefly describe the life cycle of Eri silkworm.
8. Describe composite fish culture or polyculture in details. 5
Or
Describe the construction of layout of fish farm in details.
9. What is fumigant? Write briefly on hormonal and pheromonal control of pest. 1+2+2=5
Or
What is nuptial flight? Write the criterion for selection of bee for apiculture. 1+4=5

*HomeAssignment
Zoology(Major)
Bsc6thsemester,Paper-604*

Fullmarks-30

Q.1Answerthefollowingquestions- (1×5=5)

- a) Name the enzyme which is responsible for making DNA copy from RNA.*
- b) What is a cellline ?*
- c) Name the organism on which first cellline was observed.*
- d) What is polyethylene glycol?*
- e) Name the first hormone which was artificially produced by bacteria.*

Q.2Definethefollowingquestions- (2×3=6)

- a) Reverse transcriptase*
- b) Genetic engineering*
- c) Gene cloning vectors*

Q.3Writeshortnoteson- (3×3=9)

- a) UNIX*
- b) DOS*
- c) Programming languages*

Q.4Answerthefollowingquestions- (5×2=10)

- a) Write briefly on the construction of cDNA library.*