

B.Sc. Semester - 3 (CBCS) Examination

December. -2020 [NEW COURSE]

Zoology-Z301(Core)

Time: 1:30 Hours

Marks: 42

Instructions:

1. Figure to the right indicate marks.
 2. There are five questions in the question paper.
 3. Answer any three of the following questions.
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- Q.1(A) Answer the following questions. (any two out of three) (10)
1. Give the classification of phylum Mollusca up to class with suitable examples.
 2. Give the classification of phylum Arthropoda up to class with suitable example.
 3. Give the classification of phylum Protozoa up to class with suitable example.
- Q.1(B) Answer the following questions. (any one out of two) (04)
1. Give the classification of phylum porifera up to class with suitable examples.
 2. Give the classification of phylum Platyhelminths up to class with suitable examples.
- Q.2(A) Answer the following questions. (any two out of three) (10)
1. Explain different types of canal system in sponges.
 2. Describe reproductive system of leech with suitable diagram.
 3. Describe digestive system of Leech with suitable diagram.
- Q.2(B) Answer the following questions. (any one out of two) (04)
1. Describe chewing and biting type of mouth parts.
 2. Write a short note on testicular nephridia of Leech.
- Q.3(A) Answer the following questions. (any two out of three) (10)
1. Explain the structure and function of Ribosome.
 2. Describe histological structure of mammalian kidney.
 3. Describe the structure and function of Golgi apparatus.
- Q.3(B) Answer the following questions. (any one out of two) (04)
1. Explain the structure and function of Lysosome.
 2. Describe histological structure of mammalian thyroid gland.
- Q.4(A) Answer the following questions. (any two out of three) (10)
1. Write a note on parental care in Arius, Ichthyophis and Alytes.
 2. Explain the social behaviour in honey bees.
 3. Give a General account of mosquito and silver fish as house hold insects pest?
- Q.4(B) Answer the following questions. (any one out of two) (04)
1. Explain the courtship and reproductive behaviour in spider and scorpion.
 2. Write a short note on biological control for insect pest management.
- Q.5(A) Answer the following questions. (any two out of three) (10)
1. Describe types of ecological pyramids.
 2. Give the reasons for depletion of wild life.
 3. Write the principle, procedure and application of haemoglobinometer.
- Q.5(B) Answer the following questions. (any one out of two) (04)
1. Describe Nilgiri langur and Himalayan Golden eagle are considered as threatened wild animals.
 2. Describe Velavadar National Park.