

B.Sc. Semester – 1 (NEP-2020) Examination

January-2024

Non-Chordates -1 and wildlife (Minor)

Time: 2:00 Hours

Marks: 50

Instructions:

1. All questions are compulsory.
2. Figures to the right indicate marks.

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- Que.1 Answer the following questions. (10)
1. Explain detailed structure of *Amoeba proteus* with suitable diagram. (05)
 2. Write down general characters of phylum Protozoa, classify it up to class with its characters and examples. (05)
- OR
- Que.1 Answer the following questions. (10)
1. Explain process of respiration and excretion in *Amoeba proteus*. (05)
 2. Describe multiple fission and encystment in *Amoeba proteus*. (05)
- Que.2 Answer the following questions. (10)
1. Describe the general characteristics of Phylum Porifera up to class. (05)
 2. Describe the different types of spicules in sponges. (05)
- OR
- Que.2 Answer the following questions. (10)
1. Classify Phylum Porifera up to class by providing characteristics of each class and suitable examples. (05)
 2. Describe any two types canal systems in sponges. (05)
- Que.3 Answer the following questions. (10)
1. Describe the general characteristics of Phylum Cnidaria up to class. (05)
 2. Describe the hydroid colony of *Obelia* in detail. (05)
- OR
- Que.3 Answer the following questions. (10)
1. Describe the phenomenon and patterns of polymorphism in Cnidaria by providing suitable examples. (05)
 2. Describe the medusa stage of *Obelia* in detail. (05)
- Que.4 Answer the following questions. (10)
1. What is the importance of wildlife? Explain in detail. (05)
 2. Write a note on Gir National Park. (05)
- OR
- Que.4 Answer the following questions. (10)
1. What are the differences between a Wildlife Sanctuary and a National Park. (05)
 2. Write a note on Khijadiya Bird Sanctuary. (05)
- Que.5 Answer the following questions. (10)
1. Explain osmoregulation in *Amoeba proteus*. (05)
 2. Describe larval forms of sponges and development of it. (05)
- OR
- Que.5 Answer the following questions. (10)
1. Classify obelia up to class with reason. (05)
 2. Describe the flora and fauna of Marine Wildlife Sanctuary and National Park. (05)
