

Janki Devi Bajaj Government Girls College, Kota

Monthly Test
M. Sc. Sem-III
Subject: Zoology
Paper-I (Chordata)

Maximum Marks: 15

Very short questions (one mark each)

1. Who gave the term Chordata?
2. What is geological time scale?
3. Give any two examples of cyclostomes?
4. Define adaptive radiation?
5. Write two examples of holocephalii?

Short questions (2.5 marks each)

6. Explain placoderms?
7. Differentiate cartilaginous and bony fishes?

Long answer questions (Five marks each)

8. Describe origin, evolution and adaptive radiation of amphibia.

OR

9. Explain flight adaptations.

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Paper-II (Animal Ecology)

Maximum Marks: 15

Very short questions (one mark each)

Q.1 Define edge effect.?

Q.2 Define stratification?

Q.3 What do you mean by term biogeochemical cycle?

Q.4 Define secondary productivity?

Q.5 What is biotic potential?

Short questions (2.5 marks each)

Q6. How temperature affect distribution of animals and how animals adapt themselves to extreme of temperature?

Q.7 Describe briefly fundamental operation of ecosystem?

Long answer questions (Five marks each)

Q.8 Describe detail knowledge of extent zonation, environment, biota, adaptations of marine ecosystem?

Explain the following:

(1) Liebig's law of minimum

(2) Shelford law of tolerance

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Paper-III (Forestry and Wildlife Management-I)

Maximum Marks: 15

Very short questions (one mark each)

1. Define silviculture.
2. Name any two types of forests.
3. What are non-timber forest products (NTFP).
4. Explain the role of VAM.
5. Define joint forest management (JFM).

Short questions (2.5 marks each)

6. Describe artificial regeneration of forests.
7. Explain the nitrogen cycle with a well labelled diagram.

Long answer questions (Five marks each)

8. Classify the major forest types in India according to Champion and Seth's classification along with their distribution

OR

Write a detailed note on major silvicultural systems.

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Paper-IV (Forestry and Wildlife Management-II)

Maximum Marks: 15

Very short questions (one mark each)

1. What do you mean by continental drift?
2. Define alpha biodiversity.
3. What is edge effect?
4. Define anti-venom.
5. Name 2 bacterial diseases of fish.

Short questions (2.5 marks each)

6. Write a short note on mark recapture sampling method for closed population.
7. Differentiate between poisonous and non-poisonous snakes.

Long answer questions (Five marks each)

8. Explain in detail the physical and anthropogenic factors influencing terrestrial habitats.

OR

What are the morphological and physiological adaptations found in mammals?