

Janki Devi Bajaj Government Girls College, Kota

Monthly Test

M. Sc. Sem-II

Subject: Zoology

Paper-I (Immunology and Biotechnology)

Maximum Marks: 15

Very short questions (one mark each)

Q.1 Define acquired immunity?

Q.2 Give the names of two secondary lymphoid organ.

Q.3 What is major histocompatibility complex?

Q.4 Define hypersensitivity?

Q.5. What do you mean by term somatic hybridization?

Short questions (2.5 marks each)

Q.6 Write short notes on the following:

(1) Cloning vector

(2) Bioreactor

Q.7 Write down the applications of animal cell culture.

Long answer questions (Five marks each)

Q.8 Describe briefly chemical, physical and metabolic functions of different constituents of culture medium.

or

Write short notes on the following:

(1) Hybridoma technology

(2) IVF

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Paper-II (Animal Taxonomy)

Maximum Marks: 15

Very short questions (one mark each)

1. Define Taxonomy?
2. What is Polytypic specie?
3. Define Sono-taxonomy?
4. Write two characteristics of Phylum Annelida?
5. Mention two examples egg laying mammals?

Short questions (2.5 marks each)

6. Explain Linnaean Hierarchy?
7. Write general characteristics of phylum Protozoa?

Long answer questions (Five marks each)

8. Describe the importance of sound and sonogram in taxonomy?

or

Write classification of Phylum Amphibia upto orders?

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Paper-III (Genetics)

Maximum Marks: 15

Very short questions (one mark each)

1. Define Reciprocal cross?
2. Give an example of incomplete dominance?
3. Define Sex limited traits?
4. Define topoisomerase?
5. What are Chaperons?

Short questions (2.5 marks each)

6. Explain Dihybrid cross with example?
7. Write in brief about Lac-operon?

Long answer questions (Five marks each)

8. Describe the structure and types of RNA?

or

Write the mechanism of crossing over?

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Paper-IV (Animal Physiology)

Maximum Marks: 15

Very short questions (one mark each)

1. Write any two disorders of digestive tract?
2. Define Homeostasis?
3. What is Tetany?
4. What is osmo-regulation?
5. Give an example of neuro-transmitter?

Short questions (2.5 marks each)

6. Draw a labelled diagram of Respiratory system?
7. Explain molecular theory of contraction?

Long answer questions (Five marks each)

8. Describe the mechanism of excretion by kidney?

or

Write short notes on-

1. Obesity
2. Blood pressure