

[4]

SECTION 'C'

4 × 10 = 40

Long Answer questions (Word limit 400-450 words.)

UNIT-I

Q. 1. Explain ecological Pyramids in detail.

OR

Describe the ecological models.

UNIT-II

Q. 2. What are the renewable and nonrenewable resources? Explain it in detail.

OR

Explain the factors that are responsible for increase and decrease of populations.

UNIT-III

Q. 3. Describe primary and secondary fresh water adaptation in detail.

OR

Describe the adaptations for terrestrial mode of life in detail.

UNIT-IV

Q. 4. What is stress? Explain physiological response to oxygen deficient stress.

OR

What are the factors that are responsible to avoid the stress?

-----xxx-----

ZOO.202/22

[1]

ROLL NO.....

ZOO. 202/22

II SEMESTER EXAMINATION, 2022

M.Sc. (ZOOLOGY)

PAPER-II

**ENVIRONMENTAL BIOLOGY AND
ENVIRONMENT PHYSIOLOGY**

TIME: 3 HOURS

MAX.- 80

MIN.- 16

Note: The question paper consists of three sections A, B & C. All questions are compulsory.

Section A- Attempt all multiple choice questions.

Section B- Attempt one question from each unit.

Section C- Attempt one question from each unit.

SECTION 'A'

2 × 8 = 16

MCQ (Multiple Choice Questions)

1. In ecological succession sere is a -

- (a) Intermediate developmental phase
- (b) Primary developmental phase
- (c) Secondary developmental phase
- (d) None of the above

2. Any biotic factor that acts to limit a population is-

- (a) variable
- (b) Experiment
- (c) Reproductive Potential
- (d) Limiting factors

ZOO.202/22

P.T.O.

[2]

3. The population of two or more than two species occupying the same habitat at the same time is called -

- (a) Interaction (b) Ecosystem
(c) Community (d) Competition

4. Kanger Ghati National Park found in which state -

- (a) Chhattisgarh (b) Orissa
(c) Madhya Pradesh (d) Kerala

5. Two layer of fur is found in -

- (a) Polar bears (b) Parrot
(c) Dog (d) All of the above

6. Bioluminescence is found in -

- (a) Deep Sea fish (b) Fire fly
(c) a and b both (d) None of the above

7. Warm blooded animals are -

- (a) Ectotherm (b) Endotherm
(c) Exotherm (d) None of the above

8. Osmoregulatory organ is -

- (a) Liver (b) Heart (c) Brain (d) Kidney

[3]

SECTION 'B'

4 × 6 = 24

Short Answer Type Questions (Word limit 200-250 words.)

UNIT-I

Q. 1. Explain carbon cycle.

OR

Describe components of ecosystem.

UNIT-II

Q. 2. Write characteristics of community.

OR

Explain J shaped growth curve.

UNIT-III

Q. 3. Write the adaptive characters of cave environment.

OR

Describe Parasitic habitats.

UNIT-IV

Q. 4. What are the differences between stress tolerance and stress resistance.

OR

What is osmoregulation? Explain in brief the stress physiology of osmoregulation in aquatic habitat.