

PD- 173 CV-19

(523) M.Sc. Zoology (First Semester)

Term End Examination Dec.-2020

Compulsory/Optional

Group-

Paper - II

Name/ Title of Paper: Ecology and Environmental Physiology

[Maximum Marks : 80

Time : Three Hours]

Minimum Marks : 29

Note : Answer from Both the section as Directed. The figures in the right hand margin indicate marks.

Section-A

1X10

1- Answer the following questions:

- (a) Define Ecofane
- (b) Define Parasitism
- (c) What is population regulation.
- (d) What is bio indicator
- (e) What do you mean by toxicity
- (f) The total percentage (%) of oxygen in air is -----
- (g) What is stress tolerance
- (h) Define Homeostasis
- (i) Write the name of green house gas
- (j) How do fresh water fish adapt to their environment

2- Answer the following questions.

2X5

- (a) Ecotone and edge effects
- (b) Exponential growth
- (c) What is Ozone depletion
- (d) Define community
- (e) What is acclimatisation and acclimation

Section-B

15X4

Answer all question:

Unit-I

3- Describe ecological succession in brief

Or

Write short notes an any two

- (a) Oxygen cycle
- (b) Fresh water adaptation
- (c) Biotic factors

Unit-II

4- Describe models of pre- predator dynamics

Or

Write short notes an any two of the following

- (a) Life table
- (b) Logistic growth model
- (c) Reproductive value

Unit-III

5- Write an essay on environment and impact assessment

Or

Write short notes an any two of the following

- (a) Green house gas
- (b) Water Pollution
- (c) Environmental awareness program me

Unit-IV

6- Discuss physiological response to body exercise, meditation yoga and this effect

Or

Describe osmoregulation in aqueous & terrestrial environment