

KNT/KW/16/5175

Bachelor of Science (B.Sc.) Semester-V (C.B.S.) Examination

PLANT ECOLOGY-I

Paper-2

(Botany)

Time : Three Hours]

[Maximum Marks : 50

N.B. :— (1) **All** questions are compulsory and carry equal marks.

(2) Draw well labelled diagrams wherever necessary.

1. Write notes on :

- (a) Branches of ecology.
- (b) Effects of temperature on vegetation.

5×2=10

OR

Write short notes on :

- (c) Gaseous composition of atmosphere
- (d) Photoperiodism
- (e) Vernalization
- (f) Heliophytes.

2.5×4=10

2. Write notes on :

- (a) Soil profile
- (b) Pedogenesis.

5×2=10

OR

Write short notes on :

- (c) Grazing and browsing
- (d) Symbiosis
- (e) Chemical properties of soil
- (f) Parasitism.

2.5×4=10

3. Write notes on :

- (a) Nitrogen cycle
- (b) Raunkier's life forms.

5×2=10

OR

Write short notes on :

- (c) Biotic components
- (d) Ecotype
- (e) Pyramids of biomass
- (f) Density.

2.5×4=10

4. Write notes on :

- (a) Xerosere succession
- (b) Anatomical responses of xerophytes.

5×2=10

OR

Write short notes on :

- (c) Causes of succession
- (d) Morphological responses of hydrophytes
- (e) Vivipary
- (f) Morphological responses of xerophytes.

2.5×4=10

5. Write in **two** or **three** lines only (any **ten**). Diagrams are not necessary.

- (a) Ecology
- (b) Sciophytes
- (c) Thermoperiodism
- (d) Pedology
- (e) Litter
- (f) Epiphyte
- (g) Food web
- (h) Ecad
- (i) Fidelity
- (j) Hydrosere
- (k) Aerenchyma
- (l) Stilt roots.

1×10=10