

- (h) Life-forms
- (i) Food Web
- (j) Sedge Meadow stage
- (k) Sunken Stomata
- (l) Hydrosere.

TKN/KS/16/5890

Bachelor of Science B.Sc. Semester–V (C.B.S.)
Examination
PLANT ECOLOGY–I
Botany Paper—II

Time—Three Hours]

[Maximum Marks—50

- N.B. :—** (1) **ALL** questions are compulsory and carry equal marks.
- (2) Illustrate your answers with suitable examples, diagrams wherever necessary.

1. Write on :

- (a) Gaseous composition of atmosphere 5
- (b) Branches of ecology and their significance. 5

OR

Write short notes on :

- (c) Photoperiodism 2.5
- (d) Heliophytes 2.5
- (e) Thermoperiodism 2.5
- (f) Sciophytes. 2.5

2. Write on :

- | | |
|----------------------------------|---|
| (a) Soil profile | 5 |
| (b) Physical properties of soil. | 5 |

OR

Write short notes on :

- | | |
|---------------------------------|-----|
| (c) Symbiosis | 2.5 |
| (d) Chemical properties of soil | 2.5 |
| (e) Grazing and browsing | 2.5 |
| (f) Physical weathering. | 2.5 |

3. Write on :

- | | |
|--|---|
| (a) Nitrogen cycle | 5 |
| (b) Biotic and abiotic components of an ecosystem. | 5 |

OR

Write short notes on :

- | | |
|-------------------------------------|-----|
| (c) Food chain | 2.5 |
| (d) Ecotype | 2.5 |
| (e) Pyramid of biomass | 2.5 |
| (f) Raunkier's biological spectrum. | 2.5 |

4. Write on :

- | | |
|--|---|
| (a) Morphological and anatomical adaptations of Xerophytes | 5 |
| (b) Xerosere. | 5 |

OR

Write short notes on :

- | | |
|---|-----|
| (c) Anatomical adaptations of hydrophytes | 2.5 |
| (d) Causes of succession | 2.5 |
| (e) Adaptations of halophytes | 2.5 |
| (f) Phytoplankton stage. | 2.5 |

5. Write in **TWO** or **THREE** lines only (any **TEN**). Diagrams are not necessary. 1×10=10

- | |
|-----------------------|
| (a) Ecology |
| (b) Mesotherm |
| (c) Vernalization |
| (d) Pedology |
| (e) Myremecophily |
| (f) Obligate parasite |
| (g) Density |