

NRT/KS/19/2174

**Bachelor of Science (B.Sc.) Semester–VI Examination
(New and Old)**

**PLANT ECOLOGY, TECHNIQUES AND ETHNOBOTANY
PLANT ECOLOGY, TECHNIQUES & UTILIZATION OF PLANTS**

Optional Paper–2

(Botany)

(New)

Time : Three Hours]

[Maximum Marks : 50

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

(2) Illustrate your answers with suitable examples.

1. Write on :

- (a) Xerosere succession
- (b) Morphological and physiological adaptations in Halophytes. 5×2

OR

Write short notes on :

- (c) Causes of succession
- (d) Reed-Swamp stage
- (e) Physiological adaptations in Xerophytes
- (f) Anatomical adaptations in Hydrophytes. (one example) 2.5×4

2. Write on :

- (a) Agricultural Pollution
- (b) Conservation of water resources 5×2

OR

Write short notes on :

- (c) Non renewable resources
- (d) Noise pollution
- (e) Factors for depletion of Forest
- (f) Renewable resources. 2.5×4

3. Write on :

- (a) Thin layer chromatography
- (b) Light microscopy 5×2

OR

Write short notes on :

- (c) Agarose Gel electrophoresis
- (d) Applications of SEM
- (e) Applications of centrifugation
- (f) UV spectroscopy 2.5×4

4. Write on :

(a) Morphology and utilization of cotton

(b) Importance of Ethnobotany

5×2

OR

Write short notes on :

(c) Utilization of Neem

(d) Morphology of ground nut

(e) Utilization of Rubber

(f) Morphology and chemical constituents of clove.

2.5×4

5. Write in two to three lines only (any **TEN**) ; diagrams are not necessary :

(a) Climax

(b) Submerged Hydrophytes

(c) Cladode

(d) Natural resources

(e) Pollution

(f) Agroforestry

(g) SDS-PAGE

(h) R_f value

(i) Fluorescent microscopy

(j) Ethnopharmacology

(k) Oil Cake

(l) Spikelet

1×10

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

(2) Illustrate your answers with suitable examples.

1. Write on :

(a) Western and Eastern Himalayas

(b) Theories of Land bridge and Continental Drift.

5×2

OR

Write short notes on :

(c) Deccan Plateau

(d) Climatic zones of India

(e) Central India

(f) Endemics

2.5×4

2. Write on :

(a) Non–renewable Resources

(b) Agricultural pollution

5×2

OR

Write short notes on :

(c) Noise Pollution

(d) Factors responsible for depletion of water resources

(e) Conservation of Forest resources

(f) Thermal pollution

2.5×4

3. Write on :

(a) Thin layer chromatography

(b) Light microscopy

5×2

OR

Write short notes on :

(c) Centrifugation

(d) Paper Chromatography

(e) Electron microscope

(f) Phase contrast microscope

2.5×4

4. Write on :

- (a) Ethnobotanical Vegetables
- (b) Classification of Ethnobotanical plants on the basis of their uses. 5×2

OR

Write short notes on :

- (c) Ethnic societies of India (any five)
- (d) Medicinal plants (any two)
- (e) Importance of Ethnobotany
- (f) Narcotic plants 2.5×4

5. Write in two to three lines only (any **TEN**) ; diagrams are not necessary.

- (a) Wides
- (b) Phytogeography
- (c) Native species
- (d) Rain water harvesting
- (e) Deforestation
- (f) Solar Energy
- (g) Agarose gel
- (h) Spectroscopy
- (i) Fluorescent Dye
- (j) Ethnobotany
- (k) Ethnomedicobotany
- (l) Tribals 1×10