

(6 pages)

Reg. No. :

Code No. : 10841 E Sub. Code : SEBO 6 A

B.Sc. (CBCS) DEGREE EXAMINATION,
APRIL 2020.

Sixth Semester

Botany – Main

Major Elective – III — PLANT ECOLOGY AND
PHYTOGEOGRAPHY

(For those who joined in July 2017 onwards)

Time : Three hours

Maximum : 75 marks

PART A — (10 × 1 = 10 marks)

Answer ALL questions.

Choose the correct answer :

1. The atmosphere contains _____% of nitrogen.
(a) 78 (b) 75
(c) 89 (d) 29

2. Which one of the following is a biotic factor?
- (a) Animals (b) Plants
(c) Both (a) and (b) (d) Soil
3. Ruscus is a
- (a) Hydrophyte (b) Xerophytes
(c) Mesophyte (d) Halophyte
4. The word “Ecosystem” was coined by
- (a) Watson (b) Operon
(c) Jacob (d) Tanslay
5. Only one dominant species characteristic to a particular area is called
- (a) Consociation (b) Association
(c) Lociation (d) Plant formation
6. Analysis of plant community using square of rectangular plots was first used by
- (a) Bentham (b) Hooker
(c) Clements (d) Watson

7. The burning or combustion of wastes is called
(a) Composting (b) Landfill
(c) Incineration (d) Bioremediation
8. Which one can degrade hydrocarbons?
(a) Pseudomonas (b) Streptococcus
(c) Aspergillus (d) Polyporus
9. Centre of origin of Paddy is
(a) China (b) Japan
(c) India (d) Philippines
10. Which one of the following is used for the acquisition of information about far away objects?
(a) Radar (b) Colorimeter
(c) Radium (d) Auxanometer

PART B — ($5 \times 5 = 25$ marks)

Answer ALL questions, choosing either (a) or (b).

Each answer should not exceed 250 words.

11. (a) Give a brief account on Carbon cycle.
Or
(b) Explain the role of microbes which influence on vegetation.

12. (a) Describe energy flow in a forest ecosystem.

Or

- (b) What are the morphological adaptations seen in xerophytes? Explain with suitable examples.

13. (a) Describe the Line – transect method adopted to study plant community.

Or

- (b) Write short notes on consociation.

14. (a) Give a brief account on phytoremediation.

Or

- (b) Write short notes on Biosensors.

15. (a) Explain the role of remote sensing in vegetation analysis.

Or

- (b) List the different types of vegetation in Tamilnadu.

PART C — (5 × 8 = 40 marks)

Answer ALL questions, choosing either (a) or (b).

Each answer should not exceed 600 words.

16. (a) Write an essay on Nitrogen cycle.

Or

- (b) Give a detailed account on abiotic factors.

17. (a) List the morphological adaptations of Hydrophytes.

Or

- (b) Describe a pond ecosystem.

18. (a) Describe the Quadrat method adopted to study plant community.

Or

- (b) Write an essay on units of Vegetation.

19. (a) Give a detailed account on Bioremediation.

Or

- (b) Write an essay on Biodegradation.

20. (a) Write an essay on continental drift.

Or

(b) Discuss the centre of origin of paddy and tomato.
