Reg. No.:....

## Code No.: 30841 E Sub. Code: SEBO 6 A

B.Sc. (CBCS) DEGREE EXAMINATION, APRIL 2021.

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 —  $(10 \times 1 = 10 \text{ marks})$ 

Answer ALL questions.

Choose the correct answer.

- 1. Which one of the following is an abiotic factor?
  - (a) Plants
- (b) Fungi
- (c) Algae
- (d) Humus
- 2. The amount of carbon dioxide present in air is
  - (a) 0.03%
- (b) 0.05%
- (c) 0.02%
- (d) 0.06%

	calle	called							
	(a)	Herbivores	(b)	Producers					
	(c)	Omnivores	(d)	Decomposers					
4.		Which one of the following hydrophytic plant freely float on the surface of water?							
	freely float off the surface of water:								
	(a)	Utricularia	(b)	Nymphaea					
	(c)	Pistia	(d)	Cyperus					
5.	The part of plant formation in which more than								
	two species are dominant is called								
	(a)	Association	(b)	Consociation					
	(c)	Plant formation	(d)	Lociation					
6.	Analysis of plant community using squar								
	rectangular sample plot is called								
	(a)	Qudrat Sampling	(b)	Transect Sampling					
	(c)	Loop Sampling	(d)	Point Sampling					
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The animals that consume the green plants are

3.

7.		ning up of toxiconment using micro			in	the				
	(a)	Bioremediation								
	(b)	Biodegradation								
	(c)	Phytoremediation								
	(d)	Bioleaching								
8.	The use of transgenic plants for environment clean-up is called									
	(a)	Biodegration	(b)	Bioleaching						
	(c)	Bioremediation	(d)	Phytoremed	iatio	n				
9.	The occurrence of a species or genus in a restricted geographical area is called									
	(a)	Endemism	(b)	Endangered						
	(c)	Monotypic	(d)	Holotypic						
10.	proposed by									
	(a)	Wegner	(b)	Watson						
	(c)	Crick	(d)	Chase						

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## PART B — $(5 \times 5 = 25 \text{ marks})$

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

Each answer should not exceed 250 words.

11. (a) Give a brief account on Nitrogen Cycle.

Or

- (b) Explain the role of light which influence on vegetation.
- 12. (a) Describe the structure of forest ecosystem.

Or

- (b) Explain the anatomical adaptations of hydrophytes.
- 13. (a) Write short notes on Association.

Or

(b) What is transect method? Give any two uses of transect method.

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[P.T.O.]

14. (a) Write notes on Bioleaching.

Or

- (b) Give a brief account on Bioindicators.
- 15. (a) Write on the evidences favouring continental drift.

Or

(b) Briefly describe the vegetational types of Tamilnadu.

PART C — 
$$(5 \times 8 = 40 \text{ marks})$$

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

Each answer should not exceed 600 words.

16. (a) Give a detailed account on Carbon Cycle.

Or

- (b) Explain the role of microbes which influence on vegetation.
- 17. (a) With suitable examples, explain anatomical adaptations of xerophytes.

Or

(b) Describe morphological adaptations of hydrophytes.

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18. (a) Explain the method of studying vegetation by quadrat method.

Or

- (b) Distinguish between association and consociation giving examples.
- 19. (a) Write an essay on Biodegradation.

Or

- (b) Write an essay on Biosensors.
- 20. (a) Mention the centre of origin of tomato and paddy.

Or

(b) Write an essay on remote sensing.

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