REV	-00
MSB	/15/20

M.Sc. BOTANY Third Semester Plant Ecology (MSB - 13)

Duration: 3Hrs.

Full Marks: 70

Marks: 50

 $2 \times 5 = 10$

3×5=15

5×5=25

Part-A (Objective) =20 Part-B (Descriptive)=50

(PART-B: Descriptive)

Duration: 2 hrs. 40 mins.

1. Answer the following questions (any five)

- a) What is Ecotone?
- b) What do you mean by Biome? Give an example.
- c) Write an important character of Tropical forest.
- d) What is biodiversity? Write is importance.
- e) What do you mean by indigenous medicinal system?
- f) Botanical Survey of India.
- g) What is ammonification?

2. Write short notes on the following (any five)

- a) Scramble competition.
- b) Ecology & Ecosystem.
- c) Biosphere reserves of North East India.
- d) Climax community.
- e) Types of Niche.
- f) Commensalism.
- g) Energy flow.

3. Answer the following questions (any five)

- the characteristics 0
- a) What is population? What are the characteristics?
- b) What is distribution pattern? Explain with proper examples.
- c) What is nutrient cycle? Explain with a special reference to C cycle.
- d) Define succession. What are the basic types of Succession?
- e) What is In-situ conservation? Explain with proper examples.
- f) Write a note on "Botanical garden". Prepare a report on the role of Botanical Garden in biodiversity conservation.
- g) What is Age structure? Discuss different types with their characters.

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REV-00 MS**E/06/1**0

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(The figures in the margin indicate full marks for the questions)

Duration: 20 minutes

PART A- Objective Type

I	. Se	elect and Put ' $$ ' mark on the approp	1×20=20						
~	1.	1. Dispersion of cultivated plant is generally A)RegularB) Random D) Depends on the climateC) Depends on the climateD) Depends on the soil quality							
and the second s	 2. Interaction favourable to both and obligatory is A)Competition B) Mutualism C) Parasitism D) Unknown 								
	3.	Study of inter-relationship between A)Synecology B) Autoco	*	pecies and its environment in a forest is y C) Forest ecology					
	4. Biotic potential increase in population under A)Natural conditionsB)climatic conditionC) optimum conditionD								
	5.	The abundance of a species populat A)Absolute density B)	tion within its habitat) relative density	is called C) relative density	D) Niche density				
	6.	Plant succession occurring in a sand A)Psammosere B)	dy area is) Halosere	C) Hydrosere	D) All				
-	7.	A climax community is recognized A)Grasses, herbs and shrubs	form composition						
	8.	Temperature changes in the enviror A)Aquatic B)	the animals which are C) Poikilothermal	D) Homoiothermic					
	9.	In India, Tropical evergreen forest of A)Himachal Pradesh B)	occur in Madhya Pradesh	C) Assam	D) Tamil Nadu				
	10	An ecosystem does not normally A)Imbalance B) Homeo	D) Deficient light						

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Marks – 20

11. Two major compone	ents of an ecosystem are				10. V 10.	
11. Two major components of an ecosystem are A)Food chain and decomposersC) Food chain and energy flow		B) mineral cycling and energy flow D) Energy flow and decomposers			이 가슴 쉽 ? M	
12. In a tree ecosystem the A)Upright	e pyramid of number is B) inverted		C) spindle like	D) Variable		
13. Maximum number in p A)Producers	bond ecosystem is of B) consumers		C) top consumers	D) decomposers		
14. Stratification is more c A)Deciduous forest	common in B) Tropical forest		C) temperate forest	D) Tropical sava	nnah	
15. Maximum control of h A) Epiphytes	ydrological cycle is exe B) forests	erted by	C) Plankton	D) Grassland	LEANS A	
16. Vegetation of an area i A) Soil type	is mainly determined by B) rainfall	Y	C) amount of light	D) soil water & a	daptability	
17. In India most common A) Forest	types of plant formatio B) Grassland	ons are	C) both A & B	D) None	aho J	
18. According to IUCN (1 A) Endangered	984, 1988), which is no B) Insufficiently know			D) None	0	
19. Biosphere Reserve ProA) UNESCO in 1970C) UNESCO in 1972	ogramme was launched B) UNESCO D) UNESCO	in 1971	Suffix a subgroup of the subscr	programme (MAB) b	y ·	
20. "Kanchenzonga" NatioA) Arunachal PradeshC) Tripura	onal park is in East Him B) Sikkim D) Mizoram	nalayan	region of		6	