B.Sc. BOTANY FOURTH SEMESTER ECOLOGY & PHYTOGEOGRAPHY

BSB-403

(Use Separate Answer Scripts for Objective & Descriptive)

Duration:3 hrs.

Full Marks:70

[PART-A: Objective]

Time: 20 min.

Marks:20

Choose the correct answer from the following:

1X20 = 20

- 1. Which is an example of restricted area endemic?
 - a. Mangroove

b. Rhododendron

c. Orchid

d. Shirui lily

- 2. Pesticide, Fertilizer causes which pollution?
 - a. Air pollution

b. Water pollution

c. Soil pollution

d. Oil pollution

- 3. Which of the following is not green house gasses?
 - a. CO2, CH4, N2O

b. CO2, Cl2, K

c. CO₂, CH₄, CFC

d. Both a and b

- 4. Ginkgo biloba is an example of
 - a. Neo endemics

b. Ancient endemics

c. Palaeo endemics

- d. Pseudoendemics
- 5. The mutant form of species which cannot compete with their parental species is known as
 - a. Pseudoendemics

b. Neo endemics

c. Ancient endemics

- d. Palaeo endemics
- 6. How many phytogeography region are there in India
 - a. 10

b. 11

c. 9

d. 8

- 7. Endemism exhibit
 - a. Cosmopolitan distribution
 - c. Unrestricted geographical area
- b. Restricted to a geographical area
- 8. Alpine Zone is characterized by
 - a. Presence of tree

b. Absence of tree

d. None of the above

- c. Presence of only dicot
- d. Presence of only monocot
- 9. Phytogeographical region is defined as an
 - a. Area of uniform climatic condition
 - c. Indistinct type of vegetation
- b. A distinct type of vegetation
- d. Both a and b

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10.	Which of the following is not the causes of l		
	a. Alteration and loss of the habitats	b. Pollution	
	c. Introduction of exotic species and	d. Afforestation	
	genetically modified organisms		
11	Which is the distinct unit of diversity?		
11.		h C	
	a. Population	b. Community	
	c. Species	d. All of the above	
12. Ecosystem diversity refers to			
	a. Biotic factors	b. Abiotic factors	
	c. Both biotic and abiotic factors	d. Climatic factors	
	C. Dotti biotic and abiotic factors	u. Cilitatic factors	
13.	Good ozone is found in the		
	a. stratosphere	b. ionosphere	
	c. troposphere	d. mesosphere	
14. Name the term which defines the ability of community return to its ori			
	after being displaced?		
	a. Dispersed	b. Clumped	
	c. Resistance	d. Resilience	
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15.	0		
	a. Climax community	b. ultimate community	
	c. final community	d. seral community	
16.	Interspecific competition is the competition		
10.	a. Between individuals of same species	b. Between individuals of different	
	an between marviadais of same species		
	c Rotwoon community	species	
	c. Between community	d. Between same community	
17.	What is food chain?		
	a. A long chain made of food	b. Process of preparing food	
	c. Food where locked by chain	d. Pathway that energy and nutrients	
	Total Williams Total Control	flow through the ecosystem	
	Which of the following is the range of enviro	onmental conditions in which each of the	
	species survives ?		
	a. Real niche	b. Habitary niche	
	c. Optimal niche	d. Fundamental niche	
19.	The term ecosystem was coined by		
	a. Mendal	b. Tansle	
	c. Odum	d. Aristotle	
20	Intracpositie compatition is the store 1		
20.	ntraspecific competition is the struggle for resources among		
	a. Individual of the same species	b. Individual of the different species	
	c. Member of different population	d. Different population within an	
		ecosystem	

PART-B:Descriptive

Time: 2 hrs. 40 min. Marks: 50

[Answer question no.1 & any four (4) from the rest]

1.	phytogeographical region? Write briefly on phytogeographical region of India with a suitable map.	2+8=1
2.	What is habitation and niche? Describe the different types of niches	2+8=1
3.	What is population? Describe the different characterics of population	2+8=10
4.	Write short note on a. Endemism b. Causes of the loss of biodiversity	5+5= 10
5.	What is ecological sucession? Describe the different types of sucession?	2+8=10
6.	Write short note on a. Species diversity b. Age structure	10
7.	What is plant migration? Describe the different barrier of plant distribution	2+8=10
8.	What is soil pollution? Describe the causes and effect of soil	2+8=10

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