REV-01 MSB/01/05 2023/08

SET A

Full Marks: 70

 $1 \times 20 = 20$ 

## M.Sc. BOTANY FOURTH SEMESTER (SPECIAL REPEAT) PLANT ECOLOGY MSB-403 D

[USE OMR SHEET FOR OBJECTIVE PART]

Duration: 3 hrs.

Objective )

Time: 30 mins. Marks: 20

## Choose the correct answer from the following:

- The basic unit of biological organization is:
   a. Species
- b. Population

c. Both a and b

- d. Community
- 2. Many of the species that constitute natural communities are the products of:
  - a. Ecological process

b. Co evolutionary process

c. Phylogenetic process

- d. Evolutionary process
- 3. In wind erosion, what is the diameter of particles that are moved by bounce?
  - a. 0.1-0.5 mm

b. 0.5-1mm

c. 1-2mm

- d. <0.5 mm
- 4. What stage of water erosion represents slash erosion?
  - a. Second

b. First

c. Third

- d. None of the above
- 5. Underground mining is also known as:
  - a. Surface mining

b. Inner mining

c. Middle layer mining

- d. Deep mining
- 6. Green house effect is increasing due to:
  - a. Change in atmospheric pressure
- Melting of glaciers and dry atmospheric conditions
- c. Change in number of green house gases
- d. Change in the concentration of green house gases
- 7. Which of the following are / is the effect of global warming?
  - a. Rising sea levels

- b. Expansion of desert
- c. Changing precipitation
- d. All of the above
- 8. This is not one of the possible adverse effects of the phenomena of global warming:
  - a. Extraordinary weather patterns
- b. Retreat of glaciers
- c. An increase of UVB radiation
- d. Rise in the sea level
- 9. Sulphur dioxide is produced by:
  - a. Nuclear power plants

b. Coal power plants

d. Hydroelectric power plants

- Thermal power plants
- Good ozone is found in the:a. Stratosphere
- b. Troposphere

c. lonosphere

d. Mesosphere

11.	Which of the following is not the branch of ga. Remote Sensing	b.	Cartography		
	c. Centesis	d.	Photogrammetry		
12.	The protected area is generally considered the core units of:				
	a. In situ conservation		Ex situ conservation		
	c. Both a and b	d.	Only a and not b		
13	EDM stands for:				
10.	a. Electromagnetic Distance Measurement	b.	Electronic Datum Meter		
	c. Electromagnetic diameter Magnitude	d.	Electrical Distance Meter		
14.	The most rapidly declining natural resources in the world is:				
	a. Wind		Forest		
	c. Water	d.	Sunlight		
15.	Alpine Zone is found across the Himalayas at an elevation ranging from:				
	a. 3,600 to 5,900 m above the sea level	b.	2,900 to 3,500 m above the sea level		
	c. Both a and b	d.	Only a		
16.	Which is an example of restricted area endemic?				
	a. Mangroove	b.	Rhododendron		
	c. Orchid	d.	Shirui lily		
17.	Which of the following is the not the vegetation of alpine zone?				
	a. Shorea robusta and Amara trees		Cushion plants and perennial grass		
	c. Mosses and lichens		Sedges and oak		
			8		
18.	The area where a plant first evolved and from where it dispersed to new areas is known as:				
	a. Center of dispersal	b.	Migratory		
	c. Centre of replacement		All of the above		
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19.	Which plants cannot grow in lime soil?				
	a. Spinach		Peppers		
	c. Peas	d.	Onion		
20.	North East occupies 7.7% of India's total geographical area supporting 50% of the flora, of which:				
	a. 34.34 % are endemic	b.	31.58% are endemic		
	c. 35% are endemic		23 % are endemic		
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## $\left( \underline{\text{Descriptive}} \right)$

l'ime : 2 hr. 30 mins.		
	[Answer question no.1 & any four (4) from the rest]	
1.	Write in detail about the nine phytogeographical region of India.	10
2.	Write short notes on the following: a) Sustainable development b) Protected area and their management	5+5=10
3.	Discus in detail the Environmental problem associated with coal mining in North East India.	10
4.	What is endemism? Write down in detail the different types of endemism.	2+8=10
5.	Write short notes on the following: a) Climate change b) Acid rain	5+5=10
6.	What is GIS? Discuss in detail the application of GIS in environmental management.	2+8=10
7.	What is shifting cultivation? Discuss its ecological implication.	2+8=10
8.	What are green house gases? Write down the role of different green	2+8=10

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