1781	(Pages : 2)	Name·····
		Reg. No·····
SIXTH SEMESTER B.Sc. DEGRI	EE EXAMINATION,	, MARCH/APRIL 2016
(°	UG—CCSS)	
Core	Course—Botany	
BO 6B 08—ENVIRONMENTAL SCIE	NCE, PHYTOGEOGE	RAPHY AND EVOLUTION
	dmission onwards)	
ime: Three Hours		Maximum: 30 Weightage
I. Answer all questions:		
Choose the correct answer:		
1 Green plants are:		
(a) Primary producers.	(b) Secondary pro	oducers.
(c) Consumers.	(d) Decomposers.	
2 Which type of plants are toler	rant of high salt in their	environment ?
(a) Halophytes.	(b) Xerophytes.	
(c) Hydrophytes.	(d) Mesophytes.	
3 The theory of evolution by na	tural selection was prop	posed by:
(a) Lamarck.	(b) Charles Dar	win.
(c) de Vries.	(d) Gregor Mend	lel.
4 The organization involved in	the conservation biodiv	versity is:
(a) ICBN.	(b) KSBD.	
(c) IUCN.	(d) WWE.	
Fill in the blanks:		
5 The acronym UNEP stands	for	
6 Population ecology is also k	nown as ————	
7 succession occurs on a wate	r body is known as ——	
8is the clin	nax community in all suc	ecession.
Answer in a single word		
9 Name a megadiversity nati	on.	
10 Name an ecological indicate		
11 Name any one sampling ted		mmunity studies.
2 Phytogeographical zones is	aiso known as	(12 x 1/4 = 3 weightage)
		Turn over

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## **II.** Answer *all* questions - short answer:

- 13 Differentiate between insitu and exsitu conservation.
- 14 Write a brief account on productivity of ecosystems.
- 15 Write a brief account on phytogeography and its significance.
- 16 Briefly explain exponential population growth.
- 17 Explain BOD.
- 18 Differentiate between commensalism and parasitism.
- 19 Explain mortality.
- 20 What is meant by biodiversity hotspots?
- 21 Write a brief account on proteniods.

 $(9 \times 1 = 9 \text{ weight.})$ 

## III. Answer any five questions - short essay:

- 22 Describe the patterns of plant distribution.
- 23 Describe the construction of phylogenetic trees based on biomolecules.
- 24 Differentiate between food chain and food web.
- 25 Explain global warming and green house effect.
- 26 Explain the evolution of prokaryotic and eukaryotic cells.
- 27 Differentiate between primary succession and secondary succession.
- 28 Describe the construction of phytographes.

 $(5 \times 2 = 10 \text{ weigh})$ 

## IV. Answer any two questions - essay:

- 29 Explain the modern trends in evolutionary studies.
- 30 Define pollution, explain different types of pollution and its effects.
- 31 What is meant by biogeochemical cycle? Describe the nitrogen cycle.

 $(2 \times 4 = 8 \text{ weightage})$