Exam.Code:0005 Sub. Code: 0455

2012

B.A./B.Sc. (General) Fifth Semester Botany

Paper - B: Plant Ecology

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Time allowed: 3 Hours		

Ţ Max. Marks: 36 NOTE: Attempt five questions in all, including Question No. I which is compulsory and selecting one question from each Unit. X-X-X1. A. Multiple Choice Questions (MCQ): i. Plants growing under direct sunlight are known as (a) Heliophytes (b) Sciophytes (c) Psamophytes (d) Dicots ii. Greenhouse gases include (a) CO₂, Methane, Nitrous oxide (b) CO₂, Argon, Nitrous oxide (c) CO₂, Methane, Chlorine (d) CO₂, Methane, Flourine iii. The ozone layer is present in (a) Mesosphere (b) Thermosphere (c) Stratosphere (d) None of the above iv. The correct examples of nonrenewable resources is (a) Petrol, Coal and Gas (b) Sun, Fossil fuels and Wind (c) Water, Petrol and Coal (d) Water, Wind and Sunlight The recycling of elements in an ecosystem is called ٧. (a) Chemical cycle (b) Geological cycle (c) Biogeochemical cycle (d) Geochemical cycle According to pyramid of numbers the number of producer is greater than the number of vi. Herbivores (b) carnivores (c) omnivores (d) scavengers B. Fill in the blanks: (i) Edaphic factors are related to (ii) Plants which can withstand wide range of temperature are called (iii) A network of interconnected food chains is called (iv)The important hydrocarbons for the production of photochemical smog are (v) The expanded form of IUCN is

(vi)Nuclear energy is a energy resource.

12x1 = 12

UNIT - I

IJ.	Write notes on:-	
	a) Photoperiodism	
	b) Layers of Atmosphere	(3,3)
		03-1 03-00-03-07-03.
III.	a) Discuss the various horizons of soil profile and give its characteristics.	
	b) Briefly discuss the scope of ecology.	(4,2)
	<u>UNIT - II</u>	
IV.	a) Explain the concept of energy flow in an ecosystem.	
	b) Explain food web citing an example.	(3,3)
V.	Give a detailed account of Nitrogen Cycle.	(6)
	<u>UNIT - III</u>	
VI.	a) Give an account of stages in ecological succession in lithosphere.	
	b) Briefly explain biological spectrum.	(4,2)
VII.	Write notes on:	
	a) Characteristics of ecological succession	
	b) Climax stage of plant succession	(3,3)
	<u>UNIT - IV</u>	
VIII.	a) Discuss the renewable resources of energy.	
	b) Enlist the practices for soil conservation.	(3,3)
737		
IX.	Discuss in detail the types, sources, effects and control measures of	of water
	pollution.	(6)