Exam.Code:0005 Sub. Code: 0455

2021

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

Paper - B: Plant Ecology

Max. Marks: 36 Time allowed: 3 Hours NOTE: Attempt five questions in all, including Question No. I which is compulsory and selecting one question from each Unit.

	x-x-x		a
I.	i. A. Multiple Choice Questions (MCQ): i) Acid rain results from increased concentration of a) Sulphur dioxide and nitrogen dioxide b) Carbon dioxide and methane c) Chlorofluorocarbons d) Ammonia and methane ii) Ammonification involves a) Proteolysis and amino acid degradation b) Proteolysis c) Amino acid degradation d) Denitrification		
	iii) Biochemical Oxygen Demand (BOD) is an important indicator of levels of		
	biological pollution in		
	a) Water b) Air	c) Soil	d) Noise
	iv) Sound becomes polluting at about		
	a) 50dB b) 100dB	c) 90dB	d) 80dB
	B. Fill in the blanks:-		
	v) The most common example of total stem parasite is vi) Ammonia is oxidized to nitrite and nitrate ions by nitrosomonas and vii) Phosphorus is a component of and proteins.		
	viii) Photochemical smog is produced wh	en acts i	upon motor vehicle (8x1)

exhaust gases

<u>UNIT - I</u>

a) Discuss Lichens and Mycorrhiza as biotic factors responsible for modifying II. vegetation and environment. b) Write a note on Integrated Pest Management. (4,3)III. a) Discuss the characteristics and horizons of soil profile. b) Write a note on effects of human activities on vegetation. (4,3)UNIT – II a) What are biogeochemical cycles explain with an example. IV. b) Write a note on energy flow in ecosystem. (4,3)V. a) Write a note on Food Webs. Give examples. b) Explain the Pyramids of biomass. c) Define food chain. (3,3,1)<u>UNIT – III</u> VI. a) Explain Biological spectrum. How can it be determined? b) Discuss the characteristics of a community. (4,3)VII. Write notes on:a) Phanerophytes b) Climax stage of plant succession (4,3)UNIT - IV VIII. a) Explain Greenhouse effect and Global Warming. b) Enlist major air pollutants. (4,3)IX. a) Discuss the harmful effects of various air pollutants on biota of ecosystem. b) Discuss the sources of water pollution. (4,3)