

RP-003-001511

Seat No.

B. Sc. (ECOLOGY) (Sem. V) (CBCS) Examination

February - 2019

Botany: Paper - B-503

(Old Course)

Faculty Code: 003 Subject Code: 001511

Time : $2\frac{1}{2}$ Hours] [Total Marks : 70]

- Instructions: (1) This question paper contains three questions.
 - (2) All questions are compulsory. Write answers of all the questions in main answer sheet.
 - (3) Draw neat and labelled diagram wherever necessary
 - (4) Figures to the right side indicate full marks for the questions

1	Obje	ctive	type	questions	:				20
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- (1) Give the second law of thermodynamics.
- (2) The term ecology is coined by _____.
- (3) A population said to be stable when _____.
- (4) Which frequency (percentage) range is belongs to class-B in Raunkiaer (1934) frequency classes?
- (5) The Sun's energy is fixed in the world by _____.
- (6) If the number of each species is counted, the quadrate is called: _____.
- (7) Give the name and the number of Basic types of succession.
- (8) How many percentage Energy is transferred from one trophic level to another?
- (9) Give the full form of UNESCO.
- (10) Vitality of plants depends upon _____ of species.

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		(6) Discuss different types of quadrate.						
		(5) Explain - Primary productivity.						
		(4) State only the names of any six Act / Rules / La for environment protection.	ıws					
		(3) Explain: Non-formal environmental education						
		(2) Write a note on: GPS.						
		(1) Discuss the causes of succession.						
	(B)	Give the Answer : (Any Three)	9					
		(6) Write the Wild life protection Act, Rules - 19	73.					
		(5) Explain Gross Primary Production						
		(4) Write short note: Ecological niche.						
		(3) Write the producers of typical ecosystem.						
		(2) List out the characteristic of population.						
		(1) Write a note on - Natality.						
2	(A)	Answer in short : (Any Three)	6					
	(20)	Give full form of EPA.						
	(19)	Write the names of major types of ecosystems.						
	(18)	What is Population dynamics?						
	(17)	Where are Taiga found in India?						
	(16)	In buds are situated close to the grousurface.	ınd					
	(15)	The centre of excellence scheme was started by ministin to strengthen awareness of environment science and management.	·					
	(14)	The concept of ecological pyramids was given by	7en					
	(13)	Explain the term - Ecological equivalents.						
	(12)	By which equation we can find the reproductive capaci of any plant?	eity					
	(11)	According to Raunkiaer life form, explain therophytes.	the					

(C)	Answer in detail : (Any Two)						
	(1)	(1) Discuss the principle of limiting factors.					
	(2) Describe single channel energy flow model.						
	(3)	Discuss the synthetic character of community.					
	(4)	Briefly state the basic concept of ecology.					
	(5)	What are the various legal measures taken in					
		India to protect environment ?					
(A)	Answer in short : (Any Three)						
	(1)	Write the decomposers of Ecosystem.					
	(2)	Explain - ecological efficiency					
	(3)	Write a note on - Pyramid of biomass.					
	(4)	Draw a flow chart indicating types and sub types of ecosystem.					
	(5)	Which abiotic components play role in the structure of ecosystem?					
	(6)	Explain - Secondary productivity.					
(B)	Give Answers : (Any Three)						
	(1)	Give an account of the different stages of a typical					
		hydrosere.					
	(2)	Discuss: Population dispersion.					
	(3)	Write a note on: Pyramids of number.					
	(4)	Explain: Holism.					
	(5)	Explain the theory of population dynamics.					
	(6)	Write a note on : Ecesis.					
(C)	Answer in detail : (Any Two)						
	(1)	Explain the Y - shaped energy flow model					
	(2)	Give an account of the sequential stages of a typical Xerosere.					
	(3)	Explain: Man and Biosphere Programme.					
	(4)	Explain the Savannah biomes.					
	(5)	Describe the structure and components of forest ecosystem.					

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