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B.M.S. College of Engineering, Bengaluru-560019

Autonomous Institute Affiliated to VTU

January 2024 Semester End Main Examinations

Programme: B.E.

Branch: Institutional Elective

Course Code: 19BT7IEEEM

Course: Ecology and Environmental Management

Semester: VII

Duration: 3 hrs.

Max Marks: 100

Instructions: 1. Answer any FIVE full questions, choosing one full question from each unit.
2. Missing data, if any, may be suitably assumed.

UNIT - I			CO	PO	Marks
1	a)	What is Biosphere? Discuss various components of biosphere.	<i>CO 1</i>	<i>PO 7</i>	10
	b)	Brief on i) Concepts of habitat ii) Theory of tolerance	<i>CO 2</i>	<i>PO 7</i>	10
UNIT - II					
2	a)	With at least 3 suitable population attributes discuss relationship between population and environment.	<i>CO2</i>	<i>PO7</i>	10
	b)	Using suitable examples give a detailed account on social parasitism and symbiosis.	<i>CO2</i>	<i>PO7</i>	10
OR					
3	a)	A diversity index is a quantitative measure that reflects the different types of species in a dataset and are useful simplifications to compare different communities or sites. Justify the statement with the help of at least two types of indices.	<i>CO2</i>	<i>PO7</i>	10
	b)	Discuss population dispersion and interactions with case studies.	<i>CO2</i>	<i>PO7</i>	10
UNIT - III					
4	a)	What is zoogeography? Discuss the importance of zoogeography.	<i>CO 3</i>	<i>PO7</i>	10
	b)	Elaborate on zonal wise vegetation of India.	<i>CO 3</i>	<i>PO7</i>	10
UNIT - IV					
5	a)	Write in detail five different strategies for conservation of endangered species.	<i>CO3</i>	<i>PO 7</i>	10
	b)	What is bioremediation? With suitable examples discuss various classes of Bio indicators.	<i>CO5</i>	<i>PO5</i>	10
OR					

Important Note: Completing your answers, compulsorily draw diagonal cross lines on the remaining blank pages. Revealing of identification, appeal to evaluator will be treated as malpractice.

	6	a)	Bio fertilizers and Bio pesticides are important part of organic farming. Justify.	CO 5	PO 5	10
		b)	What are the various ways of preserving germplams. How do they play role in sustainability?	CO 5	PO 5	10
UNIT - V						
	7	a)	Brief on urbanization and its impact on global warming.	CO 4	PO 7	6
		b)	Discuss the guidelines (National and International) on climate changes.	CO 6	PO 8	8
		c)	Write notes on any one category of environmental pollution.	CO 4	PO 7	6

B.M.S.C.E. - ODD SEM 2023-24