P. P. SAVANI UNIVERSITY

Third Semester of B.Sc. Examination December-2021

SSES2130/SSBT2190-Biodiversity and Conservation

13.12.2021, Monday Time: 09:00 a.m. to 11:30 a.m. Maximum Marks: 60

Instruction	C.

- 1. The question paper comprises of two sections.
- 2. Section I and II must be attempted in separate answer sheets.
- 3. Make suitable assumptions and draw neat figures wherever required.
- 4. Use of scientific calculator is allowed.

Section-I (Total Marks - 30)

- Q.1 Short Questions
- 1.1 Objectives

[10] [05]

- 1.1a Which habitats are less seasonal, relatively more constant and predictable?
 - A Tropical
 - B Arid . C Subtropical
 - D Semiarid
- 1.1b The birds also show ____ _because many are migratory.
 - A Successional patterns
 - Temporal patterns
 - C Seasonal patterns
 - D None of the above
- Due to the diversity of faunal groupings found in any given area, a variety of procedures must be used to acquire a
 - A Proper sample
 - B Collective sample
 - C Random sample
 - D Representative sample
- 1.1d Techniques for surveying fish does not include
 - A Gill nets
 - B Visual census
 - C Video
 - D Spotlighting
- 1.1e Which is the most significant cause of biodiversity loss globally?
 - A Habitat loss
 - B Fragmentation
 - C Both a and b
 - D None of the above
- 1.1f Due to a loss in biodiversity, diseases are likely to occur more
 - A Steadily
 - B Slowly
 - C Frequently
 - D Gradually

1.1g	In India, there are how many existing wildlife sanctuaries that covering 3.72 percent of the country's land area?				
	A: 566				
	B 576				
	C 526				
	D 516	,			
	<i>b</i> 310				
1.1h	When was the concept of biosphere reserves introduced as part of UNESCO's				
	Man and Biosphere (MAB) Programme? A 1941				
	B 1987				
	C 1971				
	D 1921				
	D 1721				
1.1i	The ethnic and indigenous people have conserved several plants and				
	cultivars of various agricultural crops.	/			
	A Rare				
	B Vulnerable				
	C Threatened				
1 1!	D Endangered				
1.1j	Who coined the word Social forestry?				
	A Wilson				
	B Ram Prasad				
	C Prasad				
	D. My-t-l				
	D Westoby				
1.2		[05]			
	Answer the Following: (MCQ/Short Question/Fill in the Blanks) Agroforestry is a collective name for land use systems involving trees	[05]			
1.2 1.2a	Answer the Following: (MCQ/Short Question/Fill in the Blanks) Agroforestry is a collective name for land use systems involving trees combined with crops and animals on the same unit of land. (True/False)	[05]			
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1.2a 1.2b	Answer the Following: (MCQ/Short Question/Fill in the Blanks) Agroforestry is a collective name for land use systems involving trees combined with crops and animals on the same unit of land. (True/False) The official ground for JFM was not prepared by the National Forest Policy of 1988. (True/False)	[05]			
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1.2a 1.2b 1.2c	Answer the Following: (MCQ/Short Question/Fill in the Blanks) Agroforestry is a collective name for land use systems involving trees combined with crops and animals on the same unit of land. (True/False) The official ground for JFM was not prepared by the National Forest Policy of 1988. (True/False) The sacred groves are the natural forests where interference of all kind of human activities are allowed. (True/False) The IUCN Red list categories and criteria are clearly defined system for classifying species which are at low risk of global extinction. (True/False) Cover is the percentage area of the ground occupied by of a species	[05]			
1.2a 1.2b 1.2c 1.2d	Answer the Following: (MCQ/Short Question/Fill in the Blanks) Agroforestry is a collective name for land use systems involving trees combined with crops and animals on the same unit of land. (True/False) The official ground for JFM was not prepared by the National Forest Policy of 1988. (True/False) The sacred groves are the natural forests where interference of all kind of human activities are allowed. (True/False) The IUCN Red list categories and criteria are clearly defined system for classifying species which are at low risk of global extinction. (True/False)	[05]			
1.2a 1.2b 1.2c 1.2d 1.2e	Answer the Following: (MCQ/Short Question/Fill in the Blanks) Agroforestry is a collective name for land use systems involving trees combined with crops and animals on the same unit of land. (True/False) The official ground for JFM was not prepared by the National Forest Policy of 1988. (True/False) The sacred groves are the natural forests where interference of all kind of human activities are allowed. (True/False) The IUCN Red list categories and criteria are clearly defined system for classifying species which are at low risk of global extinction. (True/False) Cover is the percentage area of the ground occupied by of a species when viewed from above.				
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Q.1 1.1 1.1a	Section-II (Total Marks - 30) Short Questions Objectives Which example below is not a threat to biodiversity? A Habitat destruction B Bioremediation		[10] [05]
	C Introduced Species D. Over-exploitation		
1.1b	Arboretum is A A forest patch B A piece of social forestry C Botanical garden with trees and shrubs D Botanical garden with cacti and herbs	eminowani nunik tinova: ton murati	

1.1c Most of the endangered species are the victims of

- A Over hunting
- B Acid rain
- C Competition with introduced species
- D Habitat destruction

1.1d Red data book is concerned with

- A Red pigmentation of plants
- B Red algae
- C Endangered species
- D Exotic species

1.1e Gir sanctuary is mainly for

- A rhino
- B Tiger
- C lion
- D elephant

1.1f Germplasm conservation at liquid Nirogen temperature is

- A stratification
- B cryopreservation
- C Scarification
- D None of these

1.1g Chipko movement was launched for the protection of

- A forests
- B livestock
- C wetlands
- D Grasslands

1.1h Estuaries are

- A Freshwater wetlands
- B Salt water wetlands
- C Least productive ecosystem
 D None of the above

1.1i Nanda Devi biosphere reserve is found in

1.1j	A Uttaranchal B Assam C Himachal Pradesh D Andhra Pradesh National Forest Policy was enunciated in A 1972 B 1978 C 1982	
	D 1988	
1.2 1.2a 1.2b 1.2c 1.2d 1.2e	MAB of UNESCO stands for World Summit on Sustainable development (2002) was held in The term hotspot was coined by First National Park of India was.	[05]
Q.2 A B	Short Notes (Attempt any two) What are the factors that determine a species as threatened? Define sacred groves. What is their role in the conservation of biodiversity? What is an endangered species? Give an example of an endangered plant and animal species each?	[06]
Q.3 A B	Explain in detail (Attempt any two) Explain In-situ and Ex-situ conservation with examples? Describe the role of local communities and traditional knowledge in conservation? Explain the role of remote sensing in management of natural resources?	[14]
C	explain the fole of femore sensing in management of natural resources:	