

B.Sc. Semester - 5 (Remedial) (CBCS) Examination**March/April-2022 (NEW COURSE)****Ecology(Core)****Time: 2:30 Hours****Marks: 70****Instructions:**

1. All questions are compulsory.
2. Figures to the right indicate marks.

Que-1(A) Answer in short:	04
(1) How light factor influenced on stomatal movement?	
(2) What is homoeothermic organism?	
(3) Define biotic factors.	
(4) Give the names of biotic factors.	
Que-1(B) Answer any one in brief:	03
(1) Explain Shelford's law of tolerance.	
(2) Give an example of Liebig's law of the minimum.	
Que-1(C) Answer any one in detail:	07
(1) Describe the fire factor.	
(2) Discuss Biological clock.	
Que-2(A) Answer in short:	04
(1) How abundance can be calculated?	
(2) Define Fidelity	
(3) What is Floristic methods?	
(4) Define Biological spectrum.	
Que-2(B) Answer any one in brief:	03
(1) Describe quantitative analytical character " Frequency " used in community structure.	
(2) Describe qualitative analytical characters " Physiognomy " used in community structure.	
Que-2(C) Answer any one in detail:	07
(1) What is sampling unit? Describe "Quadrat" method in detail.	
(2) Discuss following characters of community	
(a) Vitality	
(b) Cover and basal area	
Que-3(A) Answer in short:	04
(1) Define plant succession.	
(2) What is difference between "Allogenic" succession and "Autogenic" succession?	
(3) Give only the name of sequential steps for plant succession process.	
(4) In Hydrosere type of plant succession which plant would be the pioneering community?	
Que-3(B) Answer any one in brief:	03
(1) Explain ecological Niche shortly.	
(2) Discuss Population Size and Density	
Que-3(C) Answer any one in detail:	07
(1) Discuss "Age structure" as an important character of population.	
(2) Discuss role of "Natality" and "Mortality" in ecosystem.	
Que-4(A) Answer in short:	04
(1) Define an ecosystem.	
(2) The term "Ecosystem" was first coined by _____	
(3) Give an example of Terrestrial Ecosystems.	
(4) Define Trophic level	
Que-4(B) Answer any one in brief:	03
(1) Explain primary productivity of ecosystem.	
(2) Describe the functions of ecosystem.	

Que-4(C) Answer any one in detail:	07
(1) Discuss types of ecological Pyramids.	
(2) Describe structure of ecosystem.	
Que-5(A) Answer in short:	04
(1) State the Significance of Biodiversity	
(2) What is species diversity?	
(3) Define Keystone species.	
(4) Give examples of some keystone species.	
Que-5(B) Answer any one in brief:	03
(1) Discuss level of Biodiversity.	
(2) What is Ex-situ conservation? Give its examples and discuss any one of it.	
Que-5(C) Answer any one in detail:	07
(1) Describe Phytogeographic Regions” of India	
(2) Discuss the measurement of biodiversity.	
