## NRT/KS/19/2029

## Bachelor of Science (B.Sc.) Semester—I Examination

## ENVIRONMENTAL SCIENCE (ENVIRONMENTAL ECOLOGY)

## **Optional Paper**—2

Optional Paper—2	
Time : Three Hours][Maximum Marks]	; : 50
<b>N.B.</b> :— (1) <b>ALL</b> questions are compulsory and carry equal marks.	
(2) Illustrate your answer with suitable example and diagrams.	
1. Describe in detail light as an important abiotic factor.	10
OR	
(a) Define Ecology. Add a note on scope and application of Ecology.	5
(b) Describe in brief how temperature affects the plants.	5
2. What do you mean by interspecific relationship ? Explain mutualism and commensalism suitable example.	with 10
OR	
(a) Write an informative note on parasitism.	5
(b) What are the morphological and anatomical adaptations found in hydrophytes ?	5
3. Describe characteristics of population in detail.	10
OR	
(a) Give a brief account of physico-chemical characteristics of marine ecology.	5
(b) Describe in detail concept of carrying capacity. Add a note on environmental resist	
	5
4. Explain in detail characteristics of community.	10
OR	
(a) What is ecological succession ? Give the process in detail.	5
(b) How density, frequency and abundance is calculated in plant community ?	5
5. Answer any ten :	
(a) Define autecology.	
(b) Give any two modern branches of ecology.	
(c) What is edaphic factor ?	
(d) What is neutralism ?	
(e) What is predation ?	
(f) What are mesophytes ?	
(g) What is biotic potential ?	
(h) Name two types of growth curves.	
(i) Define thermal stratification ?	
(j) Enlist the type of ecological succession.	
(k) Define ecotone.	0
(1) What is ecological dominance ? $1 \times 1$	0=10