

B.Sc. Semester - 5 (Remedial) (CBCS) Examination
Feb/Mar. -2021 (OLD COURSE)
ECOLOGY(CORE)

Time: 1:30 Hours**Marks: 42****Instructions:**

1. Figures to the right indicate marks.
 2. There are five questions in the question paper.
 3. Answer any three of the following questions.
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| 1. a. Answer the following question (Any one) | 7 |
| <ol style="list-style-type: none">1. Explain types of ecosystem in detail2. Describe biotic and abiotic components with examples | |
| b. Answer the following question (Any one) | 4 |
| <ol style="list-style-type: none">1. Explain in brief about energy flow in ecosystem2. Write a note on food chain in ecosystem | |
| c. Objective type questions. (Any three) | 3 |
| <ol style="list-style-type: none">1. What is gross primary productivity2. True or false: Some ecologists prefer to refer the green plants as converters or transducers3. Give any one example of primary consumers4. Give any one significance of food chain5. Define food web? | |
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| 2. a. Answer the following question (Any one) | 7 |
| <ol style="list-style-type: none">1. Describe quantitative and qualitative structures of community2. Explain in detail: characters of community and physiognomic methods | |
| b. Answer the following question (Any one) | 4 |
| <ol style="list-style-type: none">1. Write a short note on ecological niche2. Give a brief idea about quadrature method | |
| c. Objective type questions. (Any three) | 3 |
| <ol style="list-style-type: none">1. Who classified frequency classes?2. Write the formula for calculating Relative density (RDE).3. What is ecotone?4. What are ecological indicators?5. Give any one name of growth form type | |
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| 3. a. Answer the following question (Any one) | 7 |
| <ol style="list-style-type: none">1. Explain causes and process of plant succession2. Describe ecological pyramids | |
| b. Answer the following question (Any one) | 4 |
| <ol style="list-style-type: none">1. Write a short note on types of succession2. Describe in brief about population size and density | |
| c. Objective type questions. (Any three) | 3 |
| <ol style="list-style-type: none">1. Define Nudation2. True or false: Forest stage is climax community stage3. What is Mortality?4. What is population?5. Define succession | |
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| 4. a. Answer the following question (Any one) | 7 |
| <ol style="list-style-type: none">1. Describe Liebig's law of minimum2. Explain in detail about Shelford's law of tolerance | |
| b. Answer the following question (Any one) | 4 |
| <ol style="list-style-type: none">1. Describe in brief about biological clock2. Write a short note on seed dormancy and viability of seeds | |

- c. Objective type questions. (Any three)** **3**
1. What is autecology?
 2. Give the formula of reproductive capacity
 3. True or false: fruits, seeds, bulbils etc are carried away from parent plants by animals, wind, water.
 4. Define Limiting factor
 5. “Critical minimum becoming detrimental to the survival of an organism” – this law is given by _____
- 5. a. Answer the following question (Any one)** **7**
1. Give a detailed idea about: Environmental education in India
 2. Write a note on GPS
- b. Answer the following question (Any one)** **4**
1. Give a brief idea about goals, objectives and guiding principles of environmental education
 2. Explain environmental laws
- c. Objective type questions. (Any three)** **3**
1. Give the full form of MAB
 2. True or false: The GPS is a satellite based system
 3. What is EPA?
 4. Give any one name of international body of environmental organization
 5. Write any one objective of MAB
