

B.Sc. Semester - 5 (CBCS) Examination
December - 2020 (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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| Q.1(A) | Answer the following question (Any one) | (07) |
| | <ol style="list-style-type: none">1. Describe biotic and abiotic components with examples.2. Explain types of ecosystem in detail. | |
| Q.1(B) | Answer the following question (Any one) | (04) |
| | <ol style="list-style-type: none">1. Write a note on food chain in ecosystem.2. Explain in brief about energy flow in ecosystem | |
| Q.1(C) | Objective type questions (Any three) | (03) |
| | <ol style="list-style-type: none">1. Define 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. What is food web? | |
| Q.2(A) | Answer the following question (Any one) | (07) |
| | <ol style="list-style-type: none">1. Describe quantitative and qualitative structures of community.2. Explain characters of community and physiognomic methods. | |
| Q.2(B) | Answer the following question (Any one) | (04) |
| | <ol style="list-style-type: none">1. Write a short note on ecological niche2. Describe quadrat method | |
| Q.2(C) | Objective type questions (Any three) | (03) |
| | <ol style="list-style-type: none">1. Who classified frequency classes?2. Give the formula for calculating Relative density (RDE)3. Define ecotone4. What are ecological indicators?5. Give any one name of growth form type | |
| Q.3(A) | Answer the following question (Any one) | (07) |
| | <ol style="list-style-type: none">1. Explain causes and process of plant succession2. Describe ecological pyramids | |
| Q.3(B) | Answer the following question (Any one) | (04) |
| | <ol style="list-style-type: none">1. Write a short note on types of succession2. Describe in brief about population size and density | |
| Q.3(C) | Objective type questions (Any three) | (03) |
| | <ol style="list-style-type: none">1. What is Nudation?2. True or False: Forest stage is climax community stage3. Define Mortality4. What is population?5. Define succession | |
| Q.4(A) | Answer the following question (Any one) | (07) |
| | <ol style="list-style-type: none">1. Describe Liebig`s law of minimum</li><li>2. Explain in detail about Shelford`s law of tolerance | |

- Q.4(B) Answer the following question (Any one) (04)
1. Describe in brief about biological clock
 2. Write a short note on seed dormancy and viability of seeds
- Q.4(C) Objective type questions (Any three) (03)
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 _____
- Q.5(A) Answer the following question (Any one) (07)
1. Explain in detail: Environmental education in India
 2. Describe GPS
- Q.5(B) Answer the following question (Any one) (04)
1. Give a brief idea about goals, objectives and guiding principles of environmental education
 2. Describe environmental laws
- Q.5 (C) Answer the following question (Any one) (03)
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
