

**B.Sc. Semester - 5 (Remedial) (CBCS) Examination****February/March. -2020****ECOLOGY (CORE)****Time: 2:30 Hours****Marks: 70****Instructions:**

1. All questions are compulsory.
  2. Figures to the right indicate marks.
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- Que-1 (A) Answer the following question. (Any one) (07)**
1. Describe types of ecosystem in detail.
  2. Explain structure of ecosystem.
- Que-1 (B) Answer the following question. (Any one) (04)**
1. Write a note on productivity of ecosystem.
  2. Explain in brief about energy flow in ecosystem.
- Que-1 (C) Objective type questions. (Any three) (03)**
1. Give the names of kinds of ecosystem.
  2. True or false: The microecosystem can be laboratory system build by taking one or very few species.
  3. What is food web?
  4. Write any one significance of food chain.
  5. Give any one example of primary consumers.
- Que-2 (A) Answer the following question. (Any one) (07)**
1. Describe synthetic and qualitative characters of plant communities.
  2. Write a note on ecological niche.
- Que-2 (B) Answer the following question. (Any one) (04)**
1. Explain characters of community.
  2. Describe quadrat method.
- Que-2 (C) Objective type questions. (Any three) (03)**
1. Give any one name of growth form type.
  2. What are ecological indicators?
  3. What is physiognomy?
  4. Who classified frequency classes?
  5. Define ecotone.
- Que-3 (A) Answer the following question. (Any one) (07)**
1. Describe ecological pyramids.
  2. Explain types and process of plant succession.
- Que-3 (B) Answer the following question. (Any one) (04)**
1. Write a short note on causes and examples of succession.
  2. Describe in brief about population size and density.
- Que-3 (C) Objective type questions. (Any three) (03)**
1. What is invasion?
  2. Define Mortality.
  3. Define succession.
  4. What is population?
  5. True or false: Forest stage is climax community stage.

- Que-4 (A) Answer the following question. (Any one) (07)**
1. Explain biological clock in detail.
  2. Describe Liebig's law of minimum.
- Que-4 (B) Answer the following question. (Any one) (04)**
1. Write a note on Shelford's law of tolerance.
  2. Explain concept of species.
- Que-4 (C) Objective type questions. (Any three) (03)**
1. Define Limiting factor.
  2. Give Liebig's law of minimum.
  3. What is autecology?
  4. True or false: Reproductive capacity =  $\frac{\text{Average seed output} \times \text{percentage germination}}{100}$
  5. True or false: fruits, seeds, bulbils etc are not carried away from parent plants by animals, wind, water.
- Que-5 (A) Answer the following question. (Any one) (07)**
1. Describe environmental laws.
  2. Describe GPS.
- Que-5 (B) Answer the following question. (Any one) (04)**
1. Write a note on Environmental education in India.
  2. Give a brief idea bout goals, objectives and guiding principles of environmental education.
- Que-5 (C) Objective type questions. (Any three) (03)**
1. Give the full form of GPS.
  2. Give the full form of MAB.
  3. Give any one name of international body of environmental organization.
  4. Write any one objectives of MAB.
  5. What is EPA?

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