

**FIRST SEMESTER (CBCSS—UG) DEGREE EXAMINATION
NOVEMBER 2020**

Environment and Water Management

EWM 1B 01—FUNDAMENTALS OF ENVIRONMENTAL SCIENCE

(2019 Admissions)

Time : Two Hours

Maximum : 60 Marks

Section A

*Answer at least **seven** questions.*

Each question carries 2 marks.

All questions can be attended.

Overall Ceiling 14.

1. What is weathering ?
2. Define commensalism.
3. What is edge effect ?
4. What is standing crop ?
5. Give an account of ecological indicators.
6. Define the term nudation.
7. What is hydrosere ?
8. What is pedogenesis ?
9. Explain humidity.
10. What is species diversity ?

(7 × 2 = 14 marks)

Section B

*Answer at least **five** questions.*

Each question carries 6 marks.

All questions can be attended.

Overall Ceiling 30.

11. Explain the soil formation.
12. Give an account of ecological pyramids.

Turn over

13. Explain the carbon cycle.
14. Give an account of grassland ecosystem.
15. Give an account of food chain and food web.
16. What are different types of rocks ?
17. Explain, how steepness and exposure of slope affect the vegetation on mountains ?

(5 × 6 = 30 marks)

Section C

Answer any two questions.

Each question carries 8 marks.

18. What is ecosystem? Describe pond ecosystem.
19. What are biomes ? Explain the characteristics of tropical rain forest.
20. Explain, how climatic factors affect various activities of plant and animals ?
21. Explain the ecological adaptations of plants.

(2 × 8 = 16 marks)

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NOVEMBER 2020**

Environment and Water Management

EWM 1B 01—FUNDAMENTALS OF ENVIRONMENTAL SCIENCE

Time : Three Hours

Maximum : 80 Marks

Section A

*Answer all questions.
Each question carries 1 mark.*

1. Ozone present in the _____ layer of the atmosphere.
2. Atmospheric moisture in the form of invisible vapour is known as _____.
3. A plant which grows best in full sunlight is called _____.
4. Organisms that occupy the same ecological niches in different geographical regions are called _____.
5. The population of individuals of more than one species is _____.
6. A series of organisms arranged in a linear manner with repeated eating and being eaten is _____.
7. _____ horizon consists of unweathered parent rock.
8. The microbes decomposing detritus are called _____.
9. The succession begins on the sandy habitats is known as _____.
10. A rock formed from magma is _____.

(10 × 1 = 10 marks)

Section B

*Answer all questions.
Each question carries 2 marks.*

11. Explain ecological indicators.
12. What is allogeneic succession ?
13. What is primary productivity ?
14. Distinguish between hydrocoles and mesocolles.

Turn over

15. Explain Bergman's rule.
16. What is thermal stratification?
17. Comment on wind breaks.
18. What is mulching?
19. Explain weathering.
20. Define synecology.

(10 × 2 = 20 marks)

Section C

*Answer any five questions.
Each question carries 6 marks.*

21. Explain soil profile.
22. Write the importance of water.
23. Give an account of pyramid of biomass.
24. Explain phosphorous cycle with help of diagram.
25. Explain natality.
26. Explain food chain and food web with examples.
27. Give an account of desert.
28. Explain different types of rocks.

(5 × 6 = 30 marks)

Section D

*Answer any two questions.
Each question carries 10 marks.*

29. Write an essay on major terrestrial biomes.
30. Explain the flow of energy through the various components of the ecosystem.
31. Write an essay on various types of interactions among the organisms.

(2 × 10 = 20 marks)