

Roll No.

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301107

December 2023

**BBA (GEN/IIFSB/DM) 1st Semester
ENVIRONMENT AND ECOLOGY (VAC-106-N1)**

Time : 3 Hours]

[Max. Marks : 75

Instructions :

1. *It is compulsory to answer all the questions (1.5 marks each) of Part-A in short.*
2. *Answer any four questions from Part-B in detail.*
3. *Different sub-parts of a question are to be attempted adjacent to each other.*

PART-A

1. Briefly answer the following questions :

- (a) What is the need of public awareness towards environmental issues? (1.5)
- (b) "Environment is the sum total of surroundings interactions", explain. (1.5)
- (c) Enlist the different components of environment. (1.5)
- (d) What is the role of Universal Declaration of Human Rights towards achievement of SDGs? (1.5)

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- (e) Why has technology use on environment been referred to as "double-edged sword", explain? (1.5)
- (f) How invasive species affect population stability? (1.5)
- (g) What are ecological pyramids? (1.5)
- (h) "Energy flow is always unidirectional", explain. (1.5)
- (i) What are the different types of aquatic ecosystem? (1.5)
- (j) Give salient features of grassland ecosystem. (1.5)

PART-B

2. (a) What do you understand by multidisciplinary nature of environmental studies, explain with the contribution of different disciplines to environmental studies? (10)
- (b) Explain briefly about the different scope of environmental studies. (5)
3. (a) Give a detailed account of structure of atmosphere. (7½)
- (b) What do you mean by population explosion? Explain in details about its cause and effect in Indian scenario. (7½)
4. (a) Define value education. What are its primary objectives and strategies for implementation? (10)
- (b) Differentiate between symbiosis and predation. (5)

5. (a) Differentiate between food chains and food webs. Discuss their significance along with suitable examples. (10)
- (b) What is ecological niche? How it is different from habitat, explain in detail. (5)
6. (a) What do you understand by ecological succession? Give brief account of its type, process and significance. (10)
- (b) What is the concept of biomes, and how do they differ from ecosystems? (5)
7. Write a short note on the following (Any three) :
- (a) Tropical Rain Forests.
- (b) Oligotrophic lakes.
- (c) Zonation in oceans.
- (d) Structural attributes of desert ecosystem. (5×3=15)