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Total Pages : 03

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May 2026

B.Tech. (Second Semester)

Environment and Ecology (VAC-106-V)

Time : 3 Hours] [*Maximum Marks : 75*

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

Part A

1. (a) Define environment and list its components. **1.5**

   (b) What is atmosphere ? Mention any two components. **1.5**

   (c) What is the need for public awareness about environment ? **1.5**

   (d) What is population explosion ? **1.5**

   (e) What is parasitism ? **1.5**

   (f) Define habitat with an example. **1.5**

(g) What are decomposers ? 1.5

(h) Define food web. 1.5

(i) What are invasive species ? Give examples of it. 1.5

(j) How does the family welfare programme help to control the population explosion ? 1.5

Part B

2. (a) Discuss the scope and importance of environmental studies. 10

   (b) Explain man-environment relationship. 5

3. (a) Explain the causes of the population explosion. 5

   (b) Discuss various positive population interactions with suitable examples 10

4. Explain the concept of an ecosystem. Describe the structure, components and functions of an ecosystem in detail. 15

5. (a) Define ecological succession and explain primary succession 5

   (b) Explain food chain, food web, and ecological pyramids with examples. 10

6. (a) Describe positive interactions among species with suitable examples. 10

   (b) Write a short note on women and child welfare in environmental context 5

7. Discuss the structure, characteristics, and functions of grassland and desert ecosystems. 15

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