

12/12

Roll No. ....

Sr. No. 311305

December 2023

BCA 3<sup>rd</sup> Semester

**ENVIRONMENTAL SCIENCES (BCA-17-204B)**

Time: 3 Hrs.

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**

Q.1 Briefly answer the following questions:

- (a) What are the different scopes of environmental studies? (1.5)
- (b) Enlist the impacts of modern agricultural practices. (1.5)
- (c) Which one is more significant, food chains or food webs, also explain why? (1.5)
- (d) What are the merits and demerits of solar energy? (1.5)
- (e) Outline the process of ecological succession. (1.5)
- (f) What is biomagnification? (1.5)
- (g) Enlist different ecological values of biodiversity. (1.5)
- (h) What are various ways to control soil pollution? (1.5)
- (i) How environmental pollution is linked with acid rain? (1.5)
- (j) Enlist the practices of wasteland reclamation. (1.5)

**PART -B**

- Q.2 (a) What are objectives of environmental awareness. Explain briefly about the different ways to create public awareness towards environmental issues. (7.5)
- (b) Give a detailed account of contribution of different disciplines in addressing current environmental issues and challenges? (7.5)
- Q.3 (a) Differentiate between renewable and non-renewable resources with suitable examples. (5)
- (b) Briefly explain about the major causes of deforestation? (5)
- (c) How an individual can play important role towards conservation of natural resources, explain briefly? (5)
- Q.4 (a) Define trophic level. Briefly explain the importance of trophic structure in functionality of an ecosystem. (5)

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- (b) What are ecological pyramids? Explain the different types of "pyramids of number" in different ecosystems. (5)
- (c) Briefly explain about the major causes and issues related to the threat to biodiversity. (5)
  
- Q.5 (a) Discuss major control measures of air pollution. (5)
- (b) What is thermal pollution. Explain its major adverse impact on environment. (5)
- (c) Briefly explain about the management of solid waste in urban areas. (5)
  
- Q.6 (a) What do you mean by sustainable development? Give a detailed account of different aspects and measures to achieve sustainable development. (10)
- (b) Define watershed. Discuss about the practices of watershed management. (5)
  
- Q.7 (a) What are the major implications of enhanced greenhouse effect, explain in detail? (7.5)
- (b) Discuss the major agents responsible for ozone layer depletion, along with their consequences. (7.5)

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PART - B

- Q.2 (a) What are objectives of environmental awareness. Explain briefly about the different ways to create public awareness towards environmental issues. (7.5)
- (b) Give a detailed account of contribution of different disciplines in addressing current environmental issues and challenges. (2)
  
- Q.3 (a) Differentiate between renewable and non-renewable resources with suitable examples. (2)
- (b) Briefly explain about the major causes of desertification. (2)
- (c) How an individual can play important role towards conservation of natural resources, explain briefly. (3)
  
- Q.4 (a) Define trophic level. Briefly explain the importance of trophic structure in functionality of an ecosystem. (2)