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BCA
(SEM I) THEORY EXAMINATION 2024-25
ENVIRONMENT AND ECOLOGY

TIME: 3 HRS

M.MARKS: 70

Note: Attempt all Sections. In case of any missing data; choose suitably.

SECTION A

1. Attempt all questions in brief.

2 x 07 = 14

Q no.	Question	CO	Level
a.	Define Global Warming and main causes of global warming.	03	K1
b.	Outline the components and segments of environment.	01	K1
c.	Differentiate between water borne disease and water induced diseases with suitable examples.	02	K2
d.	Define sustainable development and mention three pillars of sustainable development.	01	K1
e.	Identify causes of ozone layer depletion.	04	K1
f.	Enlist the policies of government of India against women education.	05	K1
g.	State contribution of automobile pollution to air quality degradation.	03	K2

SECTION B

2. Attempt any three of the following:

07 x 3 = 21

Q no.	Question	CO	Level
a.	Explain activities associated with solid waste management and process of solid waste disposal in urban areas.	03	K2
b.	Define fluorosis. Discuss sources, effects and control measure of fluoride and arsenic in drinking water.	02	K2
c.	Define balance ecosystem. Illustrate ecological pyramid on the basis of classification.	01	K2
d.	Explain effects of paddy straw burning on soil microbial dynamics.	04	K2
e.	Discuss in detail about non-government organizations and enumerate national and international non-government organization and their initiatives.	05	K2

SECTION C

3. Attempt any one part of the following:

07 x 1 = 07

Q no.	Question	CO	Level
a.	Differentiate between exponential and sigmoidal growth curve.	05	K2
b.	Define acid rain. Explain causes, control and effects of acid rain on environment.	04	K2

4. Attempt any one part of the following:

07 x 1 = 07

Q no.	Question	CO	Level
a.	Explain greenhouse effect and enumerate gases involved in greenhouse effect and their contribution.	04	K2



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b.	Discuss long term consequences of soil pollution on biodiversity and ecosystem and explain methods for remediation contaminated soil.	03	K2
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5. Attempt any one part of the following:**07 x 1 = 07**

Q no.	Question	CO	Level
a.	Discuss causes of transportation and agriculture activities impact the environment and mention key environmental consequences of these activities.	01	K2
b.	Define Nutrient cycle. Explain process involved in carbon and Nitrogen cycle.	02	K2

6. Attempt any one part of the following:**07 x 1 = 07**

Q no.	Question	CO	Level
a.	Explain energy resources. Differentiate between conventional and non-conventional energy resources with suitable examples.	02	K4
b.	Define environment science and discuss some activities needs to be created to protect our environment.	01	K2

7. Attempt any one part of the following:**07 x 1 = 07**

Q no.	Question	CO	Level
a.	Discuss the primary sources of water pollution and explain health implications of water pollution humans and aquatic life.	03	K2
b.	Explain penalties and key provisions of environment protection act that focus on conservation of natural resources.	05	K2