

01/12/23 (Evening)

Roll No. _____

Sr. No - 352108

December 2023

B. Com (Honours)- I SEMESTER

Environment and Ecology (MCEVS-01)

Time: 1.5 Hours

Max. Marks:35

- Instructions:**
1. It is compulsory to answer all the questions (1 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

- Q1 (a) Why is public awareness crucial in the context of environmental issues? (1)
- (b) Name one major cause of population explosion. (1)
- (c) Explain the concept of ecological succession. (1)
- (d) How does value education contribute to the personal development of students? (1)
- (e) Provide an example of a terrestrial food chain. (1)
- (f) What is an ecological pyramid, and why is it used in ecology? (1)
- (g) How do biomes differ from ecosystems? (1)

PART -B

- Q2 Explain the four fundamental components of the Earth's physical environment: the biosphere, atmosphere, lithosphere, and hydrosphere. Describe the unique characteristics and functions of each component. (7)
- Q3 Discuss the significance of incorporating human rights education into value-based education systems. How can value education programs contribute to promoting human rights awareness? (7)
- Q4 Discuss in detail the energy flow models and their types in the ecosystem. (7)
- Q5 Explain the multidisciplinary nature of environmental studies and its significance. Define environmental studies and outline its scope, emphasizing its relevance in addressing contemporary environmental issues. (7)
- Q6 Write a short note on the following (3.5 x 2 = 7)
- i) Food chain and food web
 - ii) Man and Environment Relationship
- Q7 What is the ecological succession? Describe the types and complete mechanism of succession. (7)

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Mar. 2022

B.A. (JMC) - I SEMESTER

Environmental Sciences ((BEVS-101)/BEVS-104-21)

Time : 90 Minutes]

[Max. Marks : 25

Instructions :

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

PART-A

1. (a) Write the importance of environmental studies. (1)
- (b) Define Ecosystem. (1)
- (c) What are the renewable and non-renewable energy sources? (1)
- (d) Define desertification. (1)
- (e) What is lentic and lotic ecosystem? (1)
- (f) What do you understand by global warming? (1)
- (g) How do we measure earthquake magnitude and intensity? (1)

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[P.T.O.]

- (h) What is gamma biodiversity? (1)
- (i) Define soil pollution? (1)
- (j) Who started Chipko movement? (1)

PART-B

- 2. (a) What is Sustainable Development? (3)
- (b) Give the various components of ecosystem. (2)
- 3. (a) Describe the importance of Forest Ecosystem. (2)
- (b) Write various source of noise pollution. (3)
- 4. What is the contribution of alternate energy sources in environment? (5)
- 5. (a) What are the causes of increasing scarcity of water ? (3)
- (b) What is the difference between *in-situ* and *ex-situ* biodiversity conservation? (2)
- 6. (a) What are causes of landslides? (2)
- (b) Does climate change have effect on agriculture? Comment. (3)

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301606

May, 2022

BBA (Gen.) - VI SEMESTER

Environmental Studies (BBA-GEN-606)

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. (a) (i) Ozone layer depletion is caused by _____.
(ii) Each link in a Food Chain is called _____.
(iii) World Environment Day is observed on _____ every year. (1.5)
- (b) (i) _____ region is a biodiversity hotspot in India.
(ii) _____ is a non-renewable source of energy.
(iii) Chernobyl disaster is associated with _____ radiations. (1.5)
- (c) What is eutrophication? (1.5)
- (d) Write down three impacts of using excessive fertilizers and pesticides on the environment. (1.5)

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59 [P.T.O.]

- (e) Write a short note on biofuels. (1.5)
- (f) What is red data book? (1.5)
- (g) Expand and define BOD. (1.5)
- (h) What are invasive species? (1.5)
- (i) Describe vermicomposting. (1.5)
- (j) State true or false: Pyramid of energy can wither be inverted or upright. (1.5)

PART-B

2. (a) Write short notes on the following :
 1. Chlorofluorocarbons.
 2. Biodiversity hotspots.
 3. Noise pollution.
 4. Acid Rain. (2.5×4=10)
 (b) Differentiate between renewable and non-renewable sources of energy. Explain with the help of suitable examples. (5)
3. (a) Enumerate the biotic and abiotic components of the ecosystem. Describe the role of biotic components in the functioning of an ecosystem. (5)
 (b) Define food chain and food web.
Describe the flow of energy and materials in the ecosystem. (4+6=10)
4. What is biodiversity? Discuss the importance of biodiversity. Why is it important to conserve biodiversity? Write a short note on the methods to conserve biodiversity. (15)

5. (a) The major threat to India's Environment is the increasing population. Discuss. (5)
 (b) Describe briefly impact of mining on environment. Explain the causes and implication of deforestation. (5+5=10)
6. (a) Define environmental pollution. Discuss five different types of environmental pollution giving suitable examples. (10)
 (b) Discuss different measures to control water pollution. (5)
7. What is ecological succession? Write the general steps occurring during ecological succession. Describe the various stages of succession on rock or water. (15)

PART -A

- Q1 (a) What are the biogeographic zones of India? (1.5)
- (b) Define the concept of sustainability and sustainable development. (1.5)
- (c) What are the structure and function of the ecosystem? (1.5)
- (d) Elaborate on the word acid rain. (1.5)
- (e) Write in short, about the desert ecosystem. (1.5)
- (f) What are the scope and importance of Environmental Studies? (1.5)
- (g) What is CBD? (1.5)
- (h) Describe in short Environmental Ethics. (1.5)
- (i) What do you stand by disaster management? (1.5)
- (j) Define endangered and endemic species of India. (1.5)

PART -B

- Q2 (a) What do you understand by energy flow in an ecosystem, explain with an example. (10)
- (b) What are all the threats to biodiversity, mention a few examples. (5)
- Q3 (a) How are Ozone Layer depletion and smog linked and what are its impact on human communities and climate change? (5)
- (b) Write a note on the aquatic ecosystem and grassland ecosystem with the help (10)

Q4 Elaborate in detail about the causes and impacts of mining, and dam building (15)
on forests, biodiversity, environment. Moreover, explains the uses and over-
exploitation of surface and groundwater.

Q5 (a) What is the difference between In-situ and Ex-situ conservation of (5)
biodiversity?

(b) Explain in detail what are the sources, effects, causes, and controls of pollution. (10)
Discuss the major impacts of human activities on the environment.

Q6 (a) What is the aim, vision, and functioning of two environmental movements? (10)
Also, explain the public awareness as a role of Indians.

(b) What are the control measures for urban and industrial waste for solid waste? (5)

Q7 Discuss the salient features of the Wildlife Protection Act; Forest Conservation (15)
Act; and Environmental Protection Act and how they contribute to the
safeguarding of the environment in India.

