BR

2025

M. A. Second Semester (CBCS) Examination

Environmental Studies

Course - CC 2.1

Full Marks—40 Time—2 Hours

The figures in the right margin indicate marks.

1. Answer ***any five*** of the following questions : 2×5=10

(a) Mention any two roles of mangrove forest in disaster management.

(b) Mention any two ''indirect resource value'' of forest land.

(c) What do you understand by ''Net primary productivity'' of an ecosystem?

(d) What do you understand by food pyramids? Give one example from marine ecosystem?

(e) What do you understand by ''EEZ'' of marine ecosystem?

(f) Mention any two benefits coming from forest biotechnology?

(g) Why ''coral reef'' is very important for marine ecosystem?

[*P.T.O.*]

2. Answer ***any four*** of the following questions : 4×5=20

(a) Discuss the impacts of urbanization on environment.

(b) What are the major features of Ramsar Convention? Discuss six wise use of wetlands in India. 2+3

(c) Briefly discuss on ''ecological succession'' of a wetland ecosystem.

(d) Discuss major threats of forest cover in Indian context.

(e) Discuss the significance of marine ecosystem combating global warming and climate change.

3. Answer ***any one*** of the following question : 1×10=10

(a) Discuss the ecological relationship among biotic and abiotic components in ecosystem. Give suitable examples.

(b) Write short note on (***ant two***) : 5+5

(i) Eco-friendly economic housing of urban people.

(ii) Classification of ecosystem.

(ii) Forest types of India

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Course - CC 2.2

Full Marks—40 Time—2 Hours

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1. Answer ***any five*** of the following questions : 5×2=10

   (a) What do you mean by hazardous waste? Give Example.

   (b) How is soil organic carbon related to soil quality?

   (c) Mention any four non-auditory effects of noise pollution.

   (d) What is visual pollution?

   (e) State any two preventive measures of Thermal pollution.

   (f) Briefly explain the importance of CETP in waste water treatment.

   (g) Write any two preventive measures of noise pollution.

[*P.T.O.*]

2. Answer ***any four*** of the following questions : 4×5=20

(a) Discuss briefly the impact of e-waste on the environment. Write down the name of the rules related to e-waste disposal. 4+1=5

(b) Describe briefly the methods for solving marine pollution.

(c) Briefly discuss the impact of population explosion on the environment.

(d) What are the point sources of soil pollution? Write the importance of NPK in soil. 2+3=5

(e) What is Green belt development? How does it help environmental protection? 2+3=5

3. Answer ***any one*** of the following questions : 1×10=10

(a) How does population explosion affect environmental stability? Suggest possible solutions to combat environmental degradation due to population explosion. 4+610

(b) Write short notes on the following : 5+5=10

(i) Extended Producer Responsibility (EPR)

(ii) Impact of radiation pollution on human being.

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Course - CC 2.3

Full Marks—40 Time—2 Hours

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1. Answer ***any five*** of the following questions : 2×5=10

   (a) According to Wegener, what were the forces responsible for continental drift?

   (b) What are the three major classes of diastrophic movements responsible for the geological features of earth?

   (c) What are Orogenic belts?

   (d) What are Piedmont glaciers?

   (e) How are the sedimentary rocks formed?

   (f) What is the most common index used by analysts in the remote sensing field?

   (g) What are the components of GIS?

2. Answer ***any four*** of the following questions : 4×5=20

   (a) Describe the erosional features produced by glaciers.

   (b) Write a short note on atmospheric stability.

   (c) Discuss the petrography of Granite and Khondalite.

   (d) Briefly discuss the origin of the solar system.

   (e) What are the different climate regions of India?

3. Answer ***any one*** of the following questions : 1×10=10

   (a) What are the applications of active remote sensing? Discuss the role of GIS in environmental Impact Assessment (EIA). 7+3=10

   (b) Give the Mohs Scale of hardness. How can you determine the hardness of a given mineral specimen? Describe the outline of the process of formation of coal and petrolium. 3+3+4=10

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M. A. Second Semester (CBCS) Examination

Environmental Studies

Course - CC 2.4

Full Marks—40 Time—2 Hours

The figures in the right margin indicate marks.

1. Answer ***any five*** of the following questions : 2×5=10

   (a) What is PAN?

   (b) What is soil pH?

   (c) State Lambert's and Beer's law?

   (d) Name the primary Stain and the Mordant used in Gram Staining.

   (e) What is the role of patassium dichromate in estimation of COD of a water sample?

   (f) Define AQI.

   (g) Name two most commonly used gels in gel electrophoresis.

2. Answer ***any four*** of the following questions : 4×5=20

   (a) Briefly explain the multiple tube fermentation technique for estimation of Coliform.

[*P.T.O.*]

(b) Write a short note on titrimetric analysis.

(c) Discuss the Modified West and Gaeke Method for analysis of SO_x in ambient air.

(d) How do you determine the TDS and TSS of a given water sample? Discuss?

(e) Describe Walkley Black method of estimation of organic carbon in soil.

3. Answer ***any one*** question of the following : 1×10=10

(a) State the working principle of Chromatography. Describe different types of Chromatography. 4+6=10

(b) Write short nots on : 5+5=10

(i) Soil Electrical Conductivity

(ii) National Ambient Air Quality Monitoring Programme.

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M. A. Second Semester (CBCS) Examination

Environmental Studies

Course - CC 2.5

Full Marks—40 Time—2 Hours

The figures in the right margin indicate marks.

1. Answer ***any five*** of the following questions : 2×5=10

   (a) What is meant by carrying capacity of the Earth?

   (b) State the ideas behind the concept of circular economy.

   (c) Mention any four planetary boundaries.

   (d) State the characteristics of public goods.

   (e) Mention four problems of measuring environmental values.

   (f) What is meant by absolute poverty and relative poverty?

   (g) Write the full forms of : GDP, GNP, NDP and NTFP.

   (h) What is a pie chart? Why is it used?

2. Answer ***any four*** of the following questions : 4×5=20

(a) Briefly discuss the levels of circular economy.

(b) Mention the different types of property rights. What are the key characteristics of property rights? 2.5+2.5

(c) Give a comparative account of the applications of environmental tax and standards.

(d) Briefly discuss the environmental costs of economic growth.

(e) Define bar graph. Briefly describe the different types of bar graphs.

3. Answer ***any one*** of the following questions : 1×10=10

(a) What are the two main features of under development? Discuss the common characteristics displayed by most of the underdeveloped countries in the world. State the effects of underdevelopment. 1+5+4=10

(b) Determine the class limits, class boundaries, class mark, class width and cumulative frequency using the following data : 10

Class Interval	Frequency
10—19	12
20—29	18
30—39	10
40—49	7