

MALLA REDDY COLLEGE OF ENGINEERING & TECHNOLOGY
(Autonomous Institution – UGC, Govt. of India)

UG Model question paper

Time: 3 hours

Environmental Studies

Max Marks: 70

Note: This question paper contains of 5 sections. Answer five questions, choosing one question from each section and each question carries 14 marks.

Section-I

1. a) Define Ecosystem? Explain Food-Chain, Food-Web with examples and their significance? [9M]
b) Write notes on Ecological pyramids? [5M]

OR

2. a) what are biogeochemical cycle? Explain Nitrogen cycle, Carbon cycle with help of diagram? [9M]
b) Explain the role of producers, consumers, and decomposers in an ecosystem? [5M]

Section-II

3. a) Define deforestation? Explain the causes and effects of deforestation? [7M]
b) What are environmental impacts of DAM construction? [7M]

OR

4. a) What are photovoltaic cell/ solar cell? Draw a diagram and enumerate its applications? [7M]
b) Write a notes on non-renewable resources? [7M]

Section-III

5. a) Define Biodiversity? Explain Value of Biodiversity? [9M]
b) What are major threats to Biodiversity? [5M]

OR

6. a) What are hotspots of biodiversity? Which are the hotspots found in India? [7M]
b). Explain Conservation of biodiversity? [7M]

Section-IV

7. a) Define Environmental pollution? Briefly describes the sources, effects and control of Air pollution? [14M]

OR

8. a) Briefly describes the sources, effects and control of Water pollution? [9M]
b) Explain climate change, a. Global warming/Green House effect, b. Ozone depletion [5M]

Section-V

9. Write notes on:
a) Environmental Impact Assessment
b) Environmental management plan [14M]

OR

10. Write salient features of
a) Air Act-1981
b) Water Act -1974 [14M]

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Section-I

1. a) Explain the structure of grass land ecosystem. [7M]
b) Define Bio Geo chemical cycle. Explain the Nitrogen Cycle with a neat sketch [7M]

(OR)

2. a) Write about food chain, food webs and explain ecological pyramids. [10M]
b) Define Ecology and Eco-system [4M]

Section-II

3. a) Write notes on alternative sources of energy. [9M]
b) Effects of Deforestation. [5M]

(OR)

4. a) Write a detailed account on Non- renewable resources. [7M]
b) Discuss the advantages & disadvantages of Dams. [7M]

Section-III

5. a) Define Bio-diversity. Explain the types and Values of Bio-diversity. [7M]
b) Write a detailed note on Hot – Spots of Bio-diversity. [7M]

OR

6. a) Write notes on In-Situ and Ex- Situ Conservation of Bio-diversity. [7M]
b) Explain Poaching, Habitat Loss & Wildlife Conflicts are Major threats to Bio-diversity [7M]

Section-IV

7. Write a notes on sources, effects causes and effects of air pollution. [14M]

(OR)

8. a) Write short notes on Green House Effect? [5M]
b) Describe the Waste Water Treatment Methods with a neat sketch. [9M]

Section-V

9. a) Explain about Air Act & Forest Act. [10M]
b) Write an account on importance of Environmental Education. [4M]

(OR)

10. a) Write about biomedical waste management and handling rules. [9M]
b) Kyoto Protocol Vs Montreal Protocol - Discuss. [6M]

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Section-I

1. a) Explain structure and function of ecosystem in detail?
b) Explain the different types of ecological pyramids, food chain and food web. [7 +7M]

OR

2. a) Explain Biogeochemical Nitrogen cycle and Water cycle in detail.
b) Explain biomagnifications and bioaccumulation concept with examples .
c) Explain energy flow in an ecosystem . [7 +4M]

Section-II

3. a) Discuss the benefits and impacts of big dams.
b) Define deforestation , Explain the various causes and effects of deforestation? [7+7M]

OR

4. a) Explain renewable and non-renewable resources in detail? Give examples.
b) Define surface and ground water? What are the effects of over utilization of groundwater? [7+7M]

Section-III

5. a) Define biodiversity. What are the HOTSPOT of biodiversity?
b) Explain the values and threats of biodiversity [4+10M]

OR

6. Explain the conservation methods to protect biodiversity [14M]

Section-IV

7. a) Define air pollution? Discuss its major sources , causes, effects and control measures of air pollution.
b) Explain solid waste management, its types and e –waste management.
c) Explain impacts of modern agriculture on soil pollution . [7+4+3M]

OR

8. a) Define water pollution? Discuss causes and effects and control measures of water pollution.
b) Explain green house effect and ozone depletion in detail. [7 +7M]

Section-V

9. a) Explain environment protection act and forest conservation act
b) Explain international conventions
1)Earth summit 2)Kyoto protocol 3)Montreal protocol [7+3+2+2M]

OR

10. a) Explain biomedical management and handling rules.
b) Explain the methodology for carrying out EIA with the help of a flow chart.
c) Explain air act 1986 and sustainable development. [5 +5+4M]