

MALLA REDDY COLLEGE OF ENGINEERING & TECHNOLOGY
(Autonomous Institution – UGC, Govt. of India)
UG Model question paper
Environmental Studies

Time: 3 hours

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 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 +3+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 a) 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]