

Code No: R10207/R10

Set No. 1

I B.Tech II Semester Supplementary Examinations, Feb. 2015
ENVIRONMENTAL STUDIES
 (Common to Civil Engineering, Electrical & Electronics Engineering,
 Computer Science & Engineering, Electronics & Instrumentation
 Engineering, Aeronautical Engineering, Bio-Technology and Automobile
 Engineering)

Time: 3 hours

Max Marks: 75

Answer any FIVE Questions
All Questions carry equal marks

1. (a) Explain how you would become act like a watch dog in preserving the natural assets?
 (b) Explain the importance of a PIL and describe whom it can be filed in the courts with a case study? [8+7]
2. (a) Explain what is the major concern regarding use of atomic power with a case study?
 (b) Write short note on hydro power and bio-energy. [7+8]
3. (a) Explain the primary and secondary succession with examples.
 (b) List the important ecological and economic services provided by ecosystems. [7+8]
4. (a) Classify the types of biodiversity and explain in detail with examples.
 (b) Discuss the causes of man-wild life conflicts. Suggest suitable wild life Conservation practices. [8+7]
5. (a) How to control thermal pollution in Industries?
 (b) Define noise pollution? How noise pollution can be controlled? [7+8]
6. (a) Write short notes on sources, effects and control measures of
 (i) Acid rains
 (ii) Ozone layer depletion?
 (b) Give a detailed account of methods used in water conservation? [8+7]
7. (a) what is the Maximum carrying capacity and Exponential growth of population? Explain?
 (b) what is your role for control of diseases in your local region? [8+7]
8. (a) What are the types forests in India define them and give proper examples.
 (b) What is the role of river water in preparing the EIA report for an Industry? [8+7]



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Set No. 2

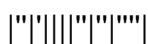
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1. (a) What needs to be done to ward off the menace of carbon-emissions?
 (b) Explain 'stone cancer'. Discuss the role of ozone layer in the atmosphere. [8+7]
2. Explain fossil fuel, write a detailed note on the merits and demerits of any three non-renewable energy sources and their impacts on environment and man? [15]
3. Discuss the energy flow models in an ecosystem? [15]
4. (a) What is Red Data Book? What do you mean by extinct, endangered, vulnerable and rare species.
 (b) Explain about scientific value of biodiversity. [10+5]
5. (a) Industrialization, green revolution and urbanization have caused lot of pollution problems in the last fifty years. Explain and quantify the damages?
 (b) What are hydrological and climatologically disasters, explain? [8+7]
6. (a) Define Rain water harvesting? Explain modern and ancient methods of Rain water harvesting to conserve water?
 (b) Explain watershed management reclamation practices? [8+7]
7. Write the following
 - (a) occupational health hazards
 - (b) water born diseases
 - (c) Air born diseases [5+5+5]
8. (a) What are the perennial and seasonal rivers explain with examples.
 (b) How does the podu culture will affect the greenery of mountains and hills? [8+7]



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1. Explain different types of environments and describe the three important constituents of physical environment? How will you differentiate between microclimate and weather. [15]
2. Explain the use of solar energy for the purpose of Solar water heating, Solar cooking, Solar electric power generation, Solar green houses and Solar drying of agriculture animal products. [15]
3. Explain why the following are important:
 - (a) Coral reefs
 - (b) Mangroves
 - (c) Coastal wetlands and estuaries [5+5+5]
4. (a) Classify the types of biodiversity and explain in detail with examples.
 (b) Discuss the causes of man-wild life conflicts. Suggest suitable wild life Conservation practices. [8+7]
5. (a) How does industrial waste cause water pollution? Write about biodegradable and non biodegradable pollutants?
 (b) How do agricultural chemicals cause water pollution? [8+7]
6. (a) Discuss the salient features of Wild life (protection) Act, 1972
 (b) Discuss the salient features of Forest (conservation) Act, 1980 [8+7]
7. (a) Write the aims and objective of 'family welfare programmes'
 (b) Enumerate different programmes which have been formulated for women and child welfare. [7+8]
8. (a) Explain how Industrilisation and Urbazination leads to the pollution do.
 (b) Explain your general observations when you visit near by solid waste management site. [8+7]

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Time: 3 hours

Max Marks: 75

Answer any FIVE Questions
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1. (a) Define common property resources. Discuss in detail the different resources can be extracted by human being from four spheres of the earth?
 (b) Differentiate the terms micro-environment and macro-environment and give the structure of lithosphere with labeled diagram? [8+7]
2. Explain fossil fuel, write a detailed note on the merits and demerits of any three non-renewable energy sources and their impacts on environment and man? [15]
3. (a) Explain briefly about different types of forest ecosystems.
 (b) How do human activities lead to degradation of forest ecosystems. [8+7]
4. (a) Explain India As a mega diversity nation.
 (b) Explain about indirect values of biodiversity. [8+7]
5. (a) What are the different sources of air pollution
 (b) What is BOD? How does it help to measure the pollution of water body? [8+7]
6. (a) What do you mean by 'environment refugees' (or)'oustees'?
 (b) What are the major causes for displacement of Native tribal people. [8+7]
7. (a) What are the major chemical infections to organisms?
 (b) Write about "Swachh Bharat" [8+7]
8. (a) Explain how does grass lands varied from the forest regions.
 (b) Explain the water pollution, air pollution, noise pollution effects you observe. [8+7]

