

Code No: R10207/R10

Set No. 1

I B.Tech II Semester Supplementary Examinations, February 2013
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) "Urban forests, Green gardens, Lawns, Green spaces, Green roof's etc., are essential to improve the aesthetic beauty of the city and human health". Explain.
(b) What role the MOEF, Govt. of India is playing for protection and preservation of environment. [8+7]
2. (a) Why do conflicts occur over water? Bring out different river disputes over sharing of water in relation to India with the help of a case study.
(b) Explain what is "RIS" and why this problem occurs? Narrate different benefits we can get by construction of multipurpose hydroelectric projects. [8+7]
3. (a) Why is the concept of food web ecologically more important than that of a simple food Chain?
(b) What is the significance of decomposers in nature? [8+7]
4. (a) What are the various strategies of ex-situ conservation of biodiversity?
(b) Describe the ecological significance of biodiversity. [8+7]
5. (a) How can stagnant solid waste affect human beings?
(b) How solid waste damages aesthetic environment? [8+7]
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 value education, how does it help to maintain a sustainable environment?
(b) what is difference between value education and Academic Education? [7+8]
8. (a) Explain different pollution control equipment you observe in the industry you visit with neat flow diagram.
(b) Does all the polluting industries maintain the proper pollution disposal measures, if not can you suggest some measures for implementing the environmental Laws in the industrial sector. [8+7]

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1. (a) Explain in detail the terms carbon credits and carbon sequestration?
(b) Write in detail the Kyoto protocol. [8+7]
2. (a) What are the various sources of energy & what is energy audit? "Saving one unit of power is equals to production of two units of power". Comment on this statement.
(b) What are energy plantations? Discuss the merits and demerits with goobar gas plants along with diagram [8+7]
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) Differentiate between genetic diversity and species diversity
(b) What is meant by Ex-situ and In-situ conservation of biodiversity? Explain with examples. [5+10]
5. (a) How does thermal pollution affect aquatic life? Explain the means to control thermal pollution?
(b) Write a note on cooling towers? [8+7]
6. (a) What are the major limitations to successful implementation of our environmental legislation?
(b) Write critical note on nuclear holocaust? [8+7]
7. (a) What are the major chemical infections to organisms?
(b) Why is life expectancy is dropping in many African countries? [8+7]
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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1. (a) Discuss the requirement of a non-polluted environment. "Developmental activities have caused positive as well as negative impacts on environment and human health". Comment.
(b) Name the major and significant minor constituents of the atmosphere with their importance and approximate percentage by volume. [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. (a) Explain briefly about different types of forest ecosystems.
(b) How do human activities lead to degradation of forest ecosystems. [8+7]
4. (a) What are the reasons of concern for loss of biodiversity.
(b) Describe the characteristic features of endangered species. [8+7]
5. (a) What are the methods of purifying water?
(b) What is ecological sanitation? [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. Write short notes on the following
(a) Behavioural influences
(b) Genetic influences
(c) Environmental influences [5+5+5]
8. (a) Explain the reason why the temperatures are less in the forest regions when compared to the urban areas.
(b) Write about the industry that you have visited. [8+7]

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1. (a) What is meant by ecomark and how does rural environment is differ from urban environment. Explain.
(b) What are temperature inversions, where does TI's will occur and what are the conditions required to form temperature inversions. [8+7]
2. Critically discuss what is sustainable agricultural method? Explain what are the implements required to introduce a green revolution and bring out the major problems we are facing today by the introduction of green revolution. [15]
3. (a) Explain the role of biogeochemical cycles in sustaining life on earth.
(b) Discuss the evaluation of climax ecosystem along with an example [8+7]
4. (a) Write about poaching of wildlife in respect of Indian context.
(b) Discuss about genetic diversity with examples [8+7]
5. (a) "Dilution of pollution is the only solution "Explain?
(b) What is role of mangroves play in the event of a cyclone? [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 notes on the fallowing social security measures
 - (a) Life insurance
 - (b) PPF
 - (c) Categorical benefits
 - (d) Employee's provident fund [4+4+4+3]
8. (a) Explain what are the types of zoo plankton, phytoplankton present in the Aquatic regions.
(b) Explain the functions of CPCB & SPCB in controlling the pollution levels in the industrial sector. [8+7]
