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Code No: R10106/R10 **Set No. 1**

I B.Tech I Semester Supplementary Examinations, Oct/nov 2013
ENVIRONMENTAL STUDIES
(Common to Mechanical Engineering, Electronics & Communication Engineering, Chemical Engineering, Information Technology, Electronics & Computer Engineering, Mining and Petroliem Technology)

Time: 3 hours Max Marks: 75

Answer any FIVE Questions
All Questions carry equal marks

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1. (a) "Environmental studies subject is multidisciplinary in nature"? Explain.
   (b) Describe what is the need to study the subject Environmental studies at all levels? [8+7]
2. (a) Define a mineral, explain how do you develop a mining area and give what are the methods to be followed to extract the mineral resources in detail?
   (b) Discuss different problems over mining personals and on environment during extraction of minerals? [8+7]
3. Explain why the following are important:
   (a) Coral reefs
   (b) Mangroves
   (c) Coastal wetlands and estuaries [5+5+5]
4. (a) Explain about direct values of biodiversity.
   (b) What are the major causes of man-wildlife conflicts? Discuss the remedial steps that can curb the conflicts. [7+8]
5. (a) Write a note on cyclone scrubbers
   (b) Mention the advantages and disadvantages of cyclone scrubbers [8+7]
6. (a) Define sustainability? What are major concepts for sustainable development?
   (b) Explain how consumerism has affected the present society? [8+7]
7. (a) What do you mean by "Slum"? What kind of shelter does it provide?
   (b) What are the objectives of UDHR by the United Nations? [8+7]
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]

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Code No: R10106/R10 **Set No. 2**

I B.Tech I Semester Supplementary Examinations, Oct/nov 2013
ENVIRONMENTAL STUDIES
(Common to Mechanical Engineering, Electronics & Communication Engineering, Chemical Engineering, Information Technology, Electronics & Computer Engineering, Mining and Petroliem Technology)

Time: 3 hours Max Marks: 75

Answer any FIVE Questions
All Questions carry equal marks

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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. [15]
3. (a) Describe the desert and semi-arid ecosystems and where are they found in India
   (b) Why is a complex ecosystem is more stable than one with few species? [8+7]
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) Discuss the effects of disasters on environment?
   (b) Briefly explain the steps taken in India to fight these disasters? [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. Write short notes on the fallowing with examples
   (a) Birth rate
   (b) Death rate
   (c) Poverty
   (d) Migration [4+4+4+3]
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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Code No: R10106/R10 **Set No. 3**

I B.Tech I Semester Supplementary Examinations, Oct/nov 2013
ENVIRONMENTAL STUDIES
(Common to Mechanical Engineering, Electronics & Communication Engineering, Chemical Engineering, Information Technology, Electronics & Computer Engineering, Mining and Petroliem Technology)

Time: 3 hours Max Marks: 75

Answer any FIVE Questions
All Questions carry equal marks

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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, climate and weather. [15]
2. Discuss the reasons for land degradation and suggest steps to control it and explain what is Soil management, Shifting cultivation, Desertification and Man induced landslides. [15]
3. (a) Differentiate between terrestrial ecosystem and aquatic ecosystem with reference to their structure and functions
   (b) Discuss the ecological adaptation by natural selection. [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) Discuss the effects of disasters on environment?
   (b) Briefly explain the steps taken in India to fight these disasters? [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. Write notes on the following social security measures
   (a) Life insurance
   (b) PPF
   (c) Categorical benefits
   (d) Employee's provident fund [4+4+4+3]
8. (a) Give some suggestions to reduce the generation of solid waste in the urban areas.
   (b) What are the types of forests grow in the hill regions. [8+7]

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Code No: R10106/R10 **Set No. 4**

I B.Tech I Semester Supplementary Examinations, Oct/nov 2013
ENVIRONMENTAL STUDIES
(Common to Mechanical Engineering, Electronics & Communication Engineering, Chemical Engineering, Information Technology, Electronics & Computer Engineering, Mining and Petroliem Technology)

Time: 3 hours Max Marks: 75

Answer any FIVE Questions
All Questions carry equal marks

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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. Discuss the reasons for land degradation and suggest steps to control it and explain what is Soil management, Shifting cultivation, Desertification and Man induced landslides. [15]
3. (a) Define ecosystem and list components of an ecosystem.
   (b) How do human activities lead to degradation of ecosystem? [8+7]
4. (a) Identify and explain the present day major threats to the biodiversity of India
   (b) Explain about productive value of biodiversity. [8+7]
5. (a) Discuss the role played by the Government in controlling water pollution
   (b) Write short notes on the following
      i. Skimming tanks
      ii. Trickling filter [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) Write the sterilization methods
   (b) what are the major rules and Laws in India to safeguard the interest of women? [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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