

II B. Tech I Semester Supplementary Examinations, June - 2015
ENVIRONMENTAL STUDIES
 (Com. to ECE, EIE, ECC)

Time: 3 hours

Max. Marks: 70

Note: 1. Question Paper consists of two parts (**Part-A** and **Part-B**)
 2. Answer **ALL** the question in **Part-A**
 3. Answer any **THREE** Questions from **Part-B**

PART-A

- | | | |
|------|--|---|
| 1 a) | What are Green house gases? How are they responsible for global warming? | 3 |
| b) | What are Food Pyramids? | 3 |
| c) | Mention the merits of Solar Energy | 3 |
| d) | What is Eutrophication? | 3 |
| e) | Define the term ' bio-diversity' | 2 |
| f) | What is Noise? What are the CPCB standards of day time noise levels at silence zones | 3 |
| g) | What is Fluorosis? | 2 |
| h) | Define the term ' Environment' | 3 |

PART-B

- | | | |
|------|---|----|
| 2 a) | What is Sustainable development? What are the strategies for Sustainable development? | 10 |
| b) | Define Ecosystem. Give the classification of Ecosystem | 6 |
| 3 a) | What are the causes and consequences of deforestation | 10 |
| b) | Distinguish between Renewable and Non-renewable resources | 6 |
| 4 a) | What is meant by generic, species and ecosystem diversity | 6 |
| b) | Explain In-situ and Ex-situ measure of conservation of biodiversity | 10 |
| 5 a) | Explain the role of an individual in prevention of pollution | 10 |
| b) | Write short note on Solid waste management | 6 |
| 6 a) | "Man cannot command nature except by obeying it". Explain | 8 |
| b) | Write the salient features of The Air (Prevention and Control of Pollution) Act | 8 |
| 7 | Write short notes on | |
| a) | Environmental Impact Statement | 6 |
| b) | Environmental Audit | 6 |
| c) | Checklist method | 4 |

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PART-A

- | | | |
|------|--|---|
| 1 a) | Define the term Environment | 2 |
| b) | What is acid rain? | 3 |
| c) | Distinguish between renewable and non-renewable resources | 3 |
| d) | What are Hot-spots of biodiversity in India? | 3 |
| e) | Mention few natural sources of air pollution | 2 |
| f) | Define the term Water pollution as per The Water Act, 1974 | 3 |
| g) | What is EIA? | 3 |
| h) | Mention the aesthetic value of biodiversity | 2 |

PART-B

- | | | |
|------|--|----|
| 2 a) | What is the importance of Environmental education? | 6 |
| b) | Explain the structure and functions of an Ecosystem | 10 |
| 3 a) | Write the impacts of mining on forests | 6 |
| b) | What are the non-conventional sources of energy. Write their merits | 10 |
| 4 | Define the term bio-diversity. Describe the In-situ and Ex-situ measures of bio-diversity conservation | 16 |
| 5 a) | Explain the impacts of Air Pollution on human and plant | 10 |
| b) | Write short notes on Nuclear hazards | 6 |
| 6 a) | Write the salient features of The Forest Conservation Act | 10 |
| b) | The principle of living is "To live and Let live ". Explain | 6 |
| 7 | Write short note on | |
| a) | Environmental audit | 6 |
| b) | Draft EIS | 4 |
| c) | Primary and Secondary Impacts | 6 |



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**PART - A**

- |      |                                                                             |   |
|------|-----------------------------------------------------------------------------|---|
| 1 a) | What is sustainable development?                                            | 3 |
| b)   | Distinguish between producers and consumers                                 | 3 |
| c)   | Define bio-magnification                                                    | 3 |
| d)   | Mention the agents responsible for soil erosion                             | 2 |
| e)   | What are the threats to bio-diversity                                       | 2 |
| f)   | What is garbage? What is the best method of disposal of garbage from hotels | 3 |
| g)   | What is rain-water harvesting?                                              | 3 |
| h)   | Write the difference between Draft EIS and final EIS                        | 3 |

**PART - B**

- |      |                                                                                       |    |
|------|---------------------------------------------------------------------------------------|----|
| 2 a) | What are the Global Environmental challenges? Explain                                 | 10 |
| b)   | Distinguish between Food chain and Food web                                           | 6  |
| 3 a) | Write the benefits and problems associated with dams                                  | 6  |
| b)   | What is sustainable development? What are the strategies for sustainable development? | 10 |
| 4 a) | What are the values of bio-diversity?                                                 | 8  |
| b)   | Explain the measures of bio-diversity conservation?                                   | 8  |
| 5 a) | What is Solid waste management?                                                       | 8  |
| b)   | What are water-borne diseases? Explain water as a vehicle of disease transmission     | 8  |
| 6 a) | “Nature has for man’s needs but not for man’s greed’s “. Explain                      | 10 |
| b)   | Write the salient features of Wild life Protection Act                                | 6  |
| 7    | Write short note on                                                                   |    |
| a)   | EIA methodologies                                                                     | 8  |
| b)   | Ecotourism                                                                            | 4  |
| c)   | Public Hearing                                                                        | 4  |

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**PART - A**

- |      |                                                          |   |
|------|----------------------------------------------------------|---|
| 1 a) | Mention the global impacts air pollution                 | 3 |
| b)   | Define the term Ecosystem                                | 3 |
| c)   | Mention two flood control measures                       | 2 |
| d)   | What is meant by desertification                         | 3 |
| e)   | Define genetic biodiversity                              | 3 |
| f)   | Mention the pollutant responsible for Bhopal gas Tragedy | 3 |
| g)   | Distinguish between composting and very-composting       | 3 |
| h)   | What is Draft EIS?                                       | 2 |

**PART - B**

- |      |                                                                                           |   |
|------|-------------------------------------------------------------------------------------------|---|
| 2 a) | What is man's impact on Environment?                                                      | 8 |
| b)   | Explain Forest Ecosystem                                                                  | 8 |
| 3 a) | What are the effects of modern agriculture?                                               | 8 |
| b)   | Explain the role of an individual in conservation of natural resources                    | 8 |
| 4 a) | What is biodiversity? What are the threats to bio-diversity?                              | 8 |
| b)   | Describe India as a mega diversity nation                                                 | 8 |
| 5 a) | What is noise? What are the auditory effects and non-auditory effects                     | 8 |
| b)   | Explain the reduction, recycling, reuse and recovery principles of solid waste management | 8 |
| 6 a) | Write the impacts of mining and dams on forests and Tribal people                         | 8 |
| b)   | Write the salient features of The Water Act                                               | 8 |
| 7    | Write short note on                                                                       |   |
| a)   | Adhoc method                                                                              | 5 |
| b)   | Cost benefit analysis                                                                     | 6 |
| c)   | Safety audit                                                                              | 5 |