

**Subject Code :- R10207/R10**

**Set No - 1**

**I B.Tech II Semester Regular Examinations June - 2012**

**ENVIRONMENTAL STUDIES**

**(Common to Computer Science Engineering, Electrical & Electronic Engineering, Civil Engineering, Electronics & Instrumentation Engineering, Aeronautical Engineering, Bio-Technology, & Automobile Engineering)**

**Time: 3 hours**

**Max. Marks : 75**

**Answer any FIVE Questions  
All Questions carry equal marks**

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- 1.(a) "Technology owes ecology and apology"- Discuss with reference to the effects of "Exploitation of resources" on man and environment quoting episodes and issues of Ogallala aquifer, Mad Cow disease, Over grazing, Over milking, Over fishing, Green, Blue and white revolutions, Extinction of the Dodo, Mining and Ground water pollution by excessive pumping etc.
- (b) Write a detailed note on any two of the following:
- |                       |   |
|-----------------------|---|
| (i) Heat Islands      | (ii) Global inequalities                    |
| (iii) Green buildings | (iv) Nobel Laureates related to environment |
- [7M + 8M]
2. What is Climate Change? What are Carbon Credits? Discuss briefly the sources, effects and methods of control of GHE, Ozone Holes and Acid Rains.
- [15M]
3. Write short notes on any three of the following:
- |  |
|--|
| (a) Minamita Disease vs. other Water borne Diseases                    |
| (b) Chernobyl Disaster vs. Bhopal Tragedy and other pollution episodes |
| (c) Hotspots of Biodiversity when compared with Western Ghats          |
| (d) Rio Summit vs. Stockholm Conference and other summits              |
- [5M + 5M + 5M]
- 4.(a) Explain the terms Environment, Species and biodiversity. What are the various values of biodiversity? What are the threats of biodiversity? Describe various Insitu and Ex-situ measures of preservation and protection of biodiversity.
- (b) What is 'Sustainable Development'? What is a citizen's role in preserving and protecting the environment?
- [8M + 7M]
- 5.(a) Compare a pond Ecosystem with an Estuarine ecosystem with reference to Structure and Functions.
- (b) Explain the terms- Food chain, Food web and Energy Pyramids, with examples and figures. Also explain their significance in an ecosystem.
- [8M + 7M]

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- 6.(a) Discuss in detail the sources, effects and methods of control of Soil pollution and Noise pollution.
- (b) Environmental Management in industries – Environmental Audit, ISO 14000, Green energy management.
- [8M + 7M]
7. Write short notes on any three of the following:
- (a) Rain water harvesting and watershed management
- (b) Renewable and Nonrenewable Energy Resources for India especially for villages
- (c) Environmental Acts, Law and Legislation
- (d) Problems and solutions of large dam projects with examples
- [5M + 5M + 5M]
8. What is 'Eco Tourism'? What are the advantages of introducing field work in a course? Assuming you've visited an Agency area with mountains, forests and streams or lakes as a part of your field work, give a detailed report on your visit. Write with figures and facts using the concepts of values of various resources, study of biodiversity, medicinal plants, revenue generated, quantitative expression of values, Benefit cost ratio, Social aspects like population, health and sanitation, etc. using the Environmental Quality data obtained by you during the visit. Give suggestions so as to make it a State of art Eco- Tourism project. The answer should reflect the multidisciplinary nature of the subject of 'Environmental Studies'.
- [15M]

**Subject Code :- R10207/R10**

**Set No - 2**

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**Time: 3 hours**

**Max. Marks : 75**

**Answer any FIVE Questions  
All Questions carry equal marks**

**\* \* \* \* \***

- 1.(a) Discuss the effects of "Exploitation of resources" on man and environment with special reference to various episodes like Ogallala aquifer, Mad Cow disease, Over grazing, Over milking, Over fishing, Green, Blue and white revolutions, Extinction of the Dodo, Mining and Ground water pollution by excessive pumping.
- (b) Write a detailed note on Environmental Awareness, Environmental economics, Environmental ethics and Environmental Education. [8M + 7M]
2. What is Climate Change? Discuss briefly the sources, effects and methods of prevention and (or) control of GHE, Ozone Holes and Acid Rains. [15M]
3. Write short notes on any three of the following:
  - (a) Multidisciplinary nature of environment.
  - (b) Role of IT in Health, Disaster Management and Environmental Management.
  - (c) Bio-geographical Distribution of flora and fauna, comparing India as a Mega Diversity Nation.
  - (d) Rio Summit vs. Stockholm Conference and other summits [5M + 5M + 5M]
- 4.(a) Define the terms Environment, Species and biodiversity. What is its significance? What are the threats of biodiversity? Describe various In-situ and Ex-situ measures of preservation and protection of biodiversity.
- (b) What is 'Sustainable Development'? What are carbon credits? What is a citizen's role in preserving and protecting the environment? [8M + 7M]
- 5.(a) Describe the Structure and Function of a Pond Ecosystem. Also, explain the terms- Food chain, Food web and Energy Pyramids, with examples and figures.
- (b) Problems and solutions of large dam projects with examples from Narmada, Nagarjunasagar, Tehri, Bhakranangal and Polavaram Dam projects. [8M + 7M]
- 6.(a) Discuss in detail the sources, effects and methods of control of thermal and Marine pollution.
- (b) What are the reasons for women discrimination and Invisible women? What are your suggestions for women empowerment and child welfare? [8M + 7M]

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7. Write short notes on any three of the following:
- (a) Chernobyl Disaster vs. Bhopal Tragedy and other episodes
  - (b) Renewable and Nonrenewable Energy Resources for India
  - (c) e-waste and biomedical waste management
  - (d) Environmental Acts, Law and Legislation

[5M + 5M + 5M]

8. What is 'Eco Tourism'? What are the advantages of introducing field work in a course? Assuming you've visited a large Industry with Green belt and Mini zoo in an area surrounded by mountains, forests and streams or lakes as a part of your field work, give a detailed report on your visit. Write with figures and facts using the concepts of values of various resources, study of biodiversity, medicinal plants, revenue generated, quantitative expression of values, Benefit cost ratio, Social aspects like population, health and sanitation, etc. using the Environmental Quality data obtained by you during the visit. Give suggestions so as to make it a State of art Eco- Tourism project. The answer should reflect the multidisciplinary nature of the subject of 'Environmental Studies'.

[15M]

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**Set No - 3**

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**Time: 3 hours**

**Max. Marks : 75**

**Answer any FIVE Questions  
All Questions carry equal marks**

**\* \* \* \* \***

1. Write short notes on any five of the following:  
(a) Vegetarian meat (b) Virtual reality (c) Green building (d) Threshold Limit Value  
(e) Ideal ecosystem (f) Carbon credits (g) Lunar real estate (h) Mad-cow disease  
[3M+ 3M + 3M + 3M + 3M]
2. What is Climate Change? Discuss briefly the sources, effects and methods of control of GHE, Ozone Holes, Acid Rains and Heat Islands.  
[15M]
3. Write short notes on any three of the following:  
(a) Top Ten Environmental Challenges of the world.  
(b) Chernobyl Disaster vs. Bhopal Tragedy and other pollution episodes  
(c) Rain water harvesting and Watershed management  
(d) Hotspots of India  
[5M + 5M + 5M]
- 4.(a) Explain the terms Environment, Species and biodiversity? What are its various values? What are the threats of biodiversity? Describe various Insitu and Ex-situ measures of preservation and protection of biodiversity.  
(b) What is 'Sustainable Development'? What is a citizen's role in preserving and protecting the environment?  
[8M + 7M]
- 5.(a) Compare a Pond Ecosystem with an Estuarine ecosystem with reference to Structure and Functions.  
(b) Explain the terms- Food chain, Food web and Energy Pyramids, with examples and figures. Also explain their significance in an ecosystem.  
[8M + 7M]
- 6.(a) Discuss in detail the sources, effects and methods of control of Soil pollution and Thermal pollution.  
(b) What are Invisible women? How to solve this and the issue of women discrimination? What are your suggestions for women empowerment and child welfare?  
[8M + 7M]

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7. Write short notes on any three of the following:
- (a) Prevention and (or) control of water borne Diseases
  - (b) Renewable and Nonrenewable Energy Resources for India especially for villages
  - (c) Environmental Acts, Law and Legislation
  - (d) Problems and solutions of large dam projects with examples
- [5M + 5M + 5M]
8. What is 'Eco Tourism'? What are the advantages of introducing field work in a course? Assuming you've visited a large Industry with Green belt and Mini zoo in an area surrounded by mountains, forests and streams or lakes as a part of your field work, give a detailed report on your visit. Write with figures and facts using the concepts of values of various resources, study of biodiversity, medicinal plants, revenue generated, quantitative expression of values, Benefit cost ratio, Social aspects like population, health and sanitation, etc. using the Environmental Quality data obtained by you during the visit. Give suggestions so as to make it a State of art Eco- Tourism project. The answer should reflect the multidisciplinary nature of the subject of 'Environmental Studies'.
- [15M]

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**Set No - 4**

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**ENVIRONMENTAL STUDIES**

**(Common to Computer Science Engineering, Electrical & Electronic Engineering, Civil Engineering, Electronics & Instrumentation Engineering, Aeronautical Engineering, Bio-Technology, & Automobile Engineering)**

**Time: 3 hours**

**Max. Marks : 75**

**Answer any FIVE Questions  
All Questions carry equal marks**

**\* \* \* \* \***

1. Write short notes on any five of the following:  
 (a) Mad Cow disease (b) Food scarcity (c) Blue revolution (d) Green buildings  
 (e) Green technologies (f) Heat Islands (g) Nobel Laureates related to environment  
 (h) Value in Rs. of a Tiger and a Mango Tree  
 [3M+ 3M + 3M + 3M + 3M]
2. What is Climate Change? Discuss briefly the sources, effects and methods of prevention and (or) control of GHE, Ozone Holes and Acid Rains.  
 [15M]
3. Write short notes on any three of the following:  
 (a) Multidisciplinary nature of environment.  
 (b) Chernobyl Disaster vs. Bhopal Tragedy and other episodes  
 (c) Problems and solutions of large dam projects with examples  
 (d) Biogeographical Distribution of flora and fauna, comparing India as a Mega Diversity Nation.  
 [5M + 5M + 5M]
- 4.(a) Explain the terms Environment, Species and biodiversity. What is the significance of biodiversity? What are the threats of biodiversity? Describe various Insitu and Ex-situ measures of preservation and protection of biodiversity.  
 (b) What is 'Sustainable Development'? What are carbon credits? What is a citizen's role in preserving and protecting the environment?  
 [8M + 7M]
- 5.(a) Describe the Structure and Function of an Estuarine Ecosystem. Also, explain the terms- Food chain, Food web and Energy Pyramids, with examples and figures.  
 (b) Problems and solutions of large dam projects with examples from Narmada, Nagarjunasagar, Tehri, Bhakranangal and Polavaram Dam projects.  
 [8M + 7M]
- 6.(a) Discuss in detail the sources, effects and methods of control of Thermal pollution and Nuclear pollution.  
 (b) What are various water borne diseases? What are various methods of their prevention and (or) control?  
 [8M + 7M]

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7. Write short notes on any three of the following:
- (a) Eradication and Management of slums
  - (b) Population Explosion and its control
  - (c) Renewable and Nonrenewable Energy Resources for India
  - (d) e-waste and biomedical waste management

[5M + 5M + 5M]

8. What is 'Eco Tourism'? What are the advantages of introducing field work in a course? Assuming you've visited an Agency area with mountains, forests and streams or lakes as a part of your field work, give a detailed report on your visit. Write with figures and facts using the concepts of values of various resources, study of biodiversity, medicinal plants, revenue generated, quantitative expression of values, Benefit cost ratio, Social aspects like population, health and sanitation, etc. using the Environmental Quality data obtained by you during the visit. Give suggestions so as to make it a State of art Eco- Tourism project. The answer should reflect the multidisciplinary nature of the subject of 'Environmental Studies'.

[15M]