

Code: 9ABS402/9ABS303

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B.Tech II Year II Semester (R09) Regular & Supplementary Examinations, April/May 2013

ENVIRONMENTAL SCIENCE

(Common to CE, ME, IT, CSE, AE, BT and MCT)

Time: 3 hours

Max Marks: 70

Answer any FIVE questions
All questions carry equal marks

- 1 (a) Define environment and environmental science.
(b) Explain the scope of environmental science in our daily life.
- 2 Write a short notes on:
 - (a) Hydrological cycle.
 - (b) Droughts.
 - (c) Soil erosion.
 - (d) Bio gas.
- 3 What are ecological pyramids? Write about various types of ecological pyramids with examples.
- 4 What do you mean by consumptive use value, productive use value, social value, ethical value, aesthetic value and option value of biodiversity?
- 5 (a) Define pollution and various types of pollution.
(b) Explain about the source, effects of water pollution.
- 6 Population, consumerism and waste production are interrelated. Explain.
- 7 What is the importance of environmental education? What is value based education?
- 8 (a) What are the environmental parameters to be taken into consideration when visiting an industry?
(b) Write about the structural and functional components of an ecosystem.

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- 1 How would environmental awareness help to protect our environment?
- 2 (a) What are renewable and non-renewable sources? With examples.
(b) Explain in brief various renewable resources in native.
- 3 Explain the functional attributes of ecosystem.
- 4 Write a short notes on:
 - (a) Ex situ conservation.
 - (b) Hot spots.
 - (c) Poaching.
 - (d) Endemic species.
- 5 Explain and write notes on solid waste management.
- 6 What are the measures to be taken for conservation of water resources?
- 7 Write notes about:
 - (a) GIS.
 - (b) Population characteristics.
 - (c) Human immune deficiency syndrome.
- 8 Explain the salient features of forest Eco-system.

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- 1 (a) Define:
 - (i) Concept of Eco-mark.
 - (ii) Green marketing.(b) Write notes on people's contribution and awareness towards environmental protection.
- 2 Explain the ecological and commercial uses of forests. Discuss major causes consequences of deforestation.
- 3 Write about:
 - (a) Grazing food chain.
 - (b) Oxygen cycle.
 - (c) Primary production of an ecosystem.
 - (d) Ecological succession.
 - (e) Homeo stasis.
- 4 Explain the Bio-geographical classification of India.
- 5 Write about soil pollution and explain the impacts of modern agriculture on soil.
- 6 Write short notes on:
 - (a) Rain water harvesting.
 - (b) Acid rain.
 - (c) Green house gases.
- 7 Explain the role of information technology in environment.
- 8 (a) Which water quality parameters are to be taken into consideration while assessing a drinking water sample testing in a laboratory?
 - (b) Write BIS: 10500: 1991 drinking water quality parameter charts.

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- 1 Define natural resources. Explain about the mineral resources, uses of minerals, environmental impacts of mineral mining.
- 2 What are Bio-geochemical cycles? Explain in brief about:
 - (i) Nitrogen cycle.
 - (ii) Carbon cycle with neat diagrams.
- 3 (a) Explain the types of conservation techniques taken for biodiversity.
(b) Major threats to biodiversity.
- 4 Explain the multidisciplinary nature of environmental studies with flow chart.
- 5 Write briefly:
 - (a) Minamata disease.
 - (b) Bio chemical oxygen demand.
 - (c) Chernobyl nuclear disaster.
 - (d) Landslides.
- 6 Discuss various issues and measures for women and child welfare at international and national level.
- 7 Explain the following:
 - (a) Environmental protection act, 1986.
 - (b) Wild life protection act 1972.
- 8 Write about different types, characteristics and components of aquatic eco-system.
