

Code: 9ABS303

B.Tech II Year II Semester (R09) Supplementary Examinations May/June 2017

ENVIRONMENTAL SCIENCE

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

Time: 3 hours

Max. Marks: 70

Answer any FIVE questions
All questions carry equal marks

- 1 (a) Discuss the multidisciplinary nature of environmental studies.
(b) Discuss the need for public awareness regarding environmental issues.
- 2 (a) List the available energy sources for the world today and 40 years from now in order of decreasing importance in accordance to your perception.
(b) Discuss the effect of mining and damson forest and tribal people.
- 3 (a) Define an ecosystem. Discuss about energy flow in ecosystems.
(b) Write notes on food chains and food webs.
- 4 (a) Define biodiversity. Discuss the human benefits of biodiversity.
(b) "India is a mega diversity nation". Discuss.
- 5 (a) Discuss the effects of presence of the following contaminants in water:
(i) Pathogens.
(ii) Organic matter.
(iii) Inorganic nutrients.
(iv) Toxic and hazardous substances.
(b) Discuss the causes, effects and control of industrial wastes
- 6 (a) What is an acid rain? What are the effects of acid rain on aquatic and terrestrial ecosystems?
(b) Write the salient features of 'Environment Protection Act'.
- 7 (a) Write about family welfare programs taken up by our country in response to phenomenal population growth.
(b) Discuss the role of information technology in environment and human health.
- 8 (a) Prepare a proforma for fieldwork to study the cause and effects of pollution at a local polluted.
(b) What is value education? Discuss its importance in the present day context.
