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Roll No

BE - 202

B.E. I & II Semester Examination, June 2015

Energy Environment Ecology & Society

Time : Three Hours

Maximum Marks : 70

Note: i) Answer five questions. In each question part A, B, C is compulsory and D part has internal choice.

ii) All parts of each questions are to be attempted at one place.

iii) All questions carry equal marks, out of which part A and B (Max.50 words) carry 2 marks, part C (Max.100 words) carry 3 marks, part D (Max.400 words) carry 7 marks.

iv) Except numericals, Derivation, Design and Drawing etc.

Unit – I

1 a) Write about solar Photovoltaic Cell.

b) Write note on closed cycle system Of OTEC.

c) Discuss about Fast Breeder Nuclear Reactor.

d) What do you understand by geothermal energy give the Advantage and limitations.

OR

Explain Conventional and non-conventional energy sources.

Unit – II

2. a) Write short note on genetic Biodiversity.

b) Explain the Nitrogen Cycle.

c) Ecosystems are not static, they are dynamic system in time and space justify the statement.

OR

Discuss Biodiversity importance and uneven distribution over earth's surface.

Unit – III

3. a) Name primary and secondary air pollutant.

b) Write short note on – Depletion of ozone layer.

c) Discuss the phenomenon of green house effect.

d) Describe Various photo chemical reaction taking place in atmosphere.

OR

Define noise and noise pollution. How Sound is measured give physiological and psychological effect of noise

Unit – IV

4. a) Write a short note on B.O.D. and its significanc.

b) Write the objective of primary waste water treatment.

c) Define soil give comment on cause of soil pollution.

d) Describe various step during primary and secondary treatment of Industrial water effluents.

OR

What are the adverse effect of soil erosion? How soil erosion can be controlled ?

Unit – V

5. a) Write note on Ethical Behavior in society.

b) Write about Ethics in Engineering.

c) Write a note on Pyrolysis and composting.

d) Briefly describe the idea of solid waste management.

OR

Describe the salient feature of Environment (Protection) Act 1986