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Total Number of Pages : 02

B.Tech.
PMG6M001

6th Semester Regular Examination 2017-18
ENVIRONMENTAL SCIENCE & ENGINEERING
BRANCH : AEIE, AERO, AUTO, BIOMED, BIOTECH, CHEM, CIVIL, CSE,
ECE, EEE, EIE, ELECTRICAL, ENV, ETC, FAT, IEE, IT, MANUFAC,
MANUTECH, MECH, METTA, MINERAL, MINING, MME, PE, PLASTIC, TEXTILE
Time : 3 Hours
Max Marks : 100
Q.CODE : C282

Answer Part-A which is compulsory and any four from Part-B.
The figures in the right hand margin indicate marks.

Part – A (Answer all the questions)

Q1. Answer the following questions : *multiple type or dash fill up type* : (2 x 10)

- a) _____ and _____ are target population for environmental Education.
- b) The narrow strip consisting of lithosphere, hydrosphere and biosphere in which life exists is known as _____.
- c) Paryavaran Vahini and Eco clubs are two examples of _____ environmental education.
- d) Sunlight and plants are examples of _____ resources.
- e) _____ and _____ are examples of edaphic factors.
- f) The energy flow in an ecosystem is _____.
- g) The pollutants normally occurring in the environment are defined as _____ pollutants.
- h) Aerosol and smoke are _____ air pollutants.
- i) Development without hampering the needs of future generation is known as _____.
- j) The noise pollution level is measured in _____ unit.

Q2. Answer the following questions : *Short answer type* : (2 x 10)

- a) Give two centers for excellence for environmental education.
- b) Give two indirect benefits from forests.
- c) Define an ecosystem.
- d) Differentiate between a grazing food chain and a detritus food chain.
- e) Give two examples of fuel minerals.
- f) What are trophic levels in eco system?
- g) Explain ecological succession.
- h) What is green house effect?
- i) Give the classification of air pollution sources.
- j) Define turbidity of water.

Part – B (Answer any four questions)

- Q3. a) Discuss about the guiding principles of Environmental Education. (7.5)**
- b) Give a note on Chipko movement. (7.5)**
- Q4. a) Define environment and ecosystem. Discuss about the structure and function of an ecosystem. (7.5)**
- b) Define a food chain. Explain different types of food chains with a neat sketch. What is a food web? (7.5)**

- Q5. a)** Discuss about the direct and indirect benefits derived from forests. **(7.5)**
b) What are the effects of deforestation? **(7.5)**
- Q6. a)** What are biogeochemical cycles? Explain the nitrogen cycle with a neat sketch. **(7.5)**
b) How does energy flow across the various trophic levels in an ecosystem? How does it differ from nutrient flow? Interpret with a neat labeled diagram. **(7.5)**
- Q7. a)** Define noise pollution. Discuss about the sources of noise pollution. **(7.5)**
b) Discuss about the effects of noise pollution on human being, plants and animals. **(7.5)**
- Q8. a)** What do you mean by air pollution? Name the causes/sources of air pollution. Classify the sources of air pollution. **(7.5)**
b) Discuss about the sources and classification of solid wastes. **(7.5)**
- Q9. a)** Explain rain water harvesting with a neat sketch. **(7.5)**
b) What is acid rain? How is it formed? What are its consequences? **(7.5)**