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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)

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

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

- Give two centers for excellence for environmental education.
- Give two indirect benefits from forests.
- Define an ecosystem.
- Differentiate between a grazing food chain and a detritus food chain.
- Give two examples of fuel minerals.
- What are trophic levels in eco system?
- Explain ecological succession.
- What is green house effect?
- Give the classification of air pollution sources.
- 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. (7.5)
What is a food web?

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- 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)
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- 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)
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- 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)