

M. TECH.
(SEM-II) THEORY EXAMINATION 2017-18
EARTH AND ENVIRONMENT

Time: 3 Hours

Total Marks: 70

Note: Attempt all Sections. If require any missing data; then choose suitably.

SECTION A

- 1. Attempt all questions in brief.** **2 x 7 = 14**
- a. Define environment.
 - b. Enlist the various spheres of environment.
 - c. What do mean by carrying capacity of environment?
 - d. What is green house effect?
 - e. Highlight the negative effects of urbanization on the environment.
 - f. What are hot spots of biodiversity?
 - g. Explain various types of pollutants with examples.

SECTION B

- 2. Attempt any three of the following:** **7 x 3 = 21**
- a. Give the classification of atmosphere according to temperature variation with neat diagram.
 - b. What are the causes of environmental deterioration? Discuss the requirements of a non-polluted environment.
 - c. Discuss the major sources and constituent materials of E-waste in detail.
 - d. What is biodiversity? What are the various conservation methods for conservation of biodiversity?
 - e. Explain the meaning of equitable use of resources for sustainable life style. Discuss the challenges to sustainable development.

SECTION C

- 3. Attempt any one part of the following:** **7 x 1=7**
- (a) What is deforestation? Explain various causes and effects of deforestation on environment.
 - (b) Discuss the environmental effects of extracting and using mineral resources.
- 4. Attempt any one part of the following:** **7x 1= 7**
- (a) What is land pollution? What are the sources and effects of land pollution? Explain how to control land pollution.
 - (b) What should be the 'guidelines for excellence' for environmental conservation?
- 5. Attempt any one part of the following:** **7 x 1= 7**
- (a) Describe the concept of sustainable development with its objectives.
 - (b) Write short note on;
 - a) Nuclear energy
 - b) Solar energy
- 6. Attempt any one part of the following:** **7 x 1= 7**
- (a) Discuss the role of government and legal aspect in environmental protection.
 - (b) What is ozone hole? What are the causes of ozone hole formation? Write the effects of depletion of ozone layer on environment.
- 7. Attempt any one part of the following:** **7 x 1= 7**
- (a) What is green house effect? What are various gases of green house? Also discuss various impact of green house effect on environment.
 - (b) Explain various types of biodiversity on detail.