



(Following Paper ID and Roll No. to be filled in your Answer Book)

PAPER ID : 199224-N

Roll No.

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B. Tech.

(SEM.II) THEORY EXAMINATION, 2014-15 ENVIRONMENT & ECOLOGY

Time : 2 Hours]

[Total Marks : 50

Note : Attempt all questions. All questions carry equal marks.

1 Attempt any four parts of the following : $3.5 \times 4 = 14$

- (a) Elaborate the statement "Multidisciplinary nature of Environmental science".
- (b) How would you broadly divide major layer or regions of the atmosphere? State respective altitude and temperature ranges.
- (c) What are the basic components of Ecosystem?
- (d) Discuss the various level of the Bio-diversity.
- (e) Briefly describe the need of public awareness about the environment.
- (f) What are non-conventional energy resources? Discuss any two of them.

- 2 Attempt any two parts of the following : $6 \times 2 = 12$
- (a) (i) What are Ecological pyramids? Describe energy pyramid.
 - (ii) Write in detail about the functions of ecosystem.
 - (b) What is Environmental Impact Assessment? Discuss its importance in planning and implementation of engineering projects
 - (c) Define pollution and pollutants. Discuss the adverse effects and control measures of water pollution.
- 3 Attempt any two parts of the following : $6 \times 2 = 12$
- (a) Explain in detail Carbon and nitrogen cycle.
 - (b) Write a short note on sustainable development.
 - (c) What are air borne diseases? Is it come under the disease caused by air pollution?
- 4 Attempt any two parts of the following : $6 \times 2 = 12$
- (a) What is meant by ozone depletion? How CFCs and other ozone depleting substances affect ozone shield?
 - (b) Why do we refer Environmental Protection Act, 1986 as an Umbrella Act? Discuss the Environmental Protection rules, 1986.
 - (c) What are bio-indicators? Discuss the various types of bio-indicators.