

320873(20)

APR-MAY

B. E. (Eighth Semester) Examination, 2020

(Old Scheme)

(Civil Engg. Branch)

**ENVIRONMENTAL POLLUTION and
MANAGEMENT**

Time Allowed : Three hours

Maximum Marks : 80

Minimum Pass Marks : 28

Note : Attempt all questions. Part (a) of each question is compulsory. Attempt any two parts from (b), (c) and (d). Prove neat sketches wherever necessary.

Unit-I

- 1. (a) Write the basic principles of environmental management.**

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- (b) Write the goals of environmental management and explain characteristics of environmental management. 7
- (c) Discuss the functions performed by State and Central Government. 7
- (d) Write short notes on the following : 7
- (i) Regulatory Instruments
 - (ii) International concern for environment.

Unit-II

2. (a) What do you mean by population explosion? 2
- (b) Explain the world population growth and its effect on environment. 7
- (c) Discuss the effect of overcrowding on ecology briefly. 7
- (d) Write short notes on : 7
- (i) Population density
 - (ii) Zero population growth rate

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Unit-III

3. (a) What do you mean by environmental research? 2
- (b) Explain the different types of research methodology. 7
- (c) Give the details of sampling techniques. 7
- (d) Explain how the pollutants are transported in water. 7

Unit-IV

4. (a) What do you mean by Municipal Solid Waste? 2
- (b) Write short notes on solid waste management and its implication. 7
- (c) What are the methods of composting? 7
- (d) What do you mean by Environmental Audit and explain different types of Environmental Audits. 7

Unit-V

5. (a) What do you mean by environmental predictions? 2
- (b) What are strategies for achieving sustainable development? 7

(c) What do you mean by EIA? What is the role of EIA? 7

(d) Explain how the deforestation has changed the ecology of Chhattisgarh state. 7