

T82/SBT064/EE/20160716

Time : 3 Hours

Marks : 80

Instructions :

1. All Questions are Compulsory.
 2. Each Sub-question carry 5 marks.
 3. Each Sub-question should be answered between 75 to 100 words. Write every questions answer on separate page.
 4. Question paper of 80 Marks, it will be converted in to your programme structure marks.
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1. Solve any **four** sub-questions.
 - a) Describe ecosystem in brief. 5
 - b) What is sustainable development? 5
 - c) Give a cycle of oxygen in the geosphere. 5
 - d) Write in brief about carbon dioxide cycle in geosphere. 5
 - e) Write a short note on 'nitrogen cycle'. 5
2. Solve any **four** sub-questions.
 - a) Describe an anaerobic treatment of waste water. 5
 - b) Write in brief about the treatment of sewage. 5
 - c) Write notes on 'Trickling filter'. 5
 - d) Describe Rotating drums. 5
 - e) Describe the role of microorganisms in aerobic treatment. 5

3. Solve any **four** sub-questions.
- a) What is ozone layer depletion? 5
 - b) Write about green house effect. 5
 - c) Describe the phenomenon of acid rain. 5
 - d) Write on 'Biotechnological approach for management of environment. 5
 - e) What is meant by biological warfare? 5
4. Solve any **four** sub-questions.
- a) Describe the biotechnological method in pollution abatment. 5
 - b) Describe the process photosynthesis for reducing O₂ emissions. 5
 - c) Define biological classification. 5
 - d) How does algae produce oxygen? 5
 - e) Write about the metal pollution and its bioabatment. 5

