

Reg No.: \_\_\_\_\_

Name: \_\_\_\_\_

**APJ ABDUL KALAM TECHNOLOGICAL UNIVERSITY**  
FIFTH SEMESTER B.TECH DEGREE EXAMINATION, DECEMBER 2018

**Course Code: CE371**

**Course Name: ENVIRONMENT AND POLLUTION**

Max. Marks: 100

Duration: 3 Hours

**PART A**

*Answer any two full questions, each carries 15 marks.*

Marks

- |   |  |     |
|---|--|-----|
| 1 | a) Write short note on population explosion.   | (7) |
|   | b) The industrial developments have caused positive as well as negative effects on human health-Give relevant comments.                | (8) |
| 2 | a) Write a note on source and effects of particulate air pollutants mentioning their chemical composition                              | (7) |
|   | b) Draw a flow chart showing the movement of food and energy in a food chain   | (4) |
|   | c) What are the biotic and abiotic components of an ecosystem?   | (4) |
| 3 | a) What is ozone hole? What are the causes of ozone hole formation? Discuss effects of ozone layer depletion and its remedial measures | (7) |
|   | b) Define ambient air quality standards.   | (5) |
|   | c) What is biogeochemical cycle?   | (3) |

**PART B**

*Answer any two full questions, each carries 15 marks.*

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|---|---|-----|
| 4 | a) Give the environmental significance of DO and BOD.   | (8) |
|   | b) Explain about<br>1) The major pollutants of water<br>2) Water borne diseases   | (7) |
| 5 | a) How Eutrophication of water bodies lead to extinction of bird species?   | (4) |
|   | b) Re-cycling is an integral part of solid waste management. Comment.   | (5) |
|   | c) Give the different methods available for solid waste disposal. Mention the advantages and disadvantages of land filling. | (6) |
| 6 | a) Explain the segregation of solid waste.  | (5) |
|   | b) Differentiate the composition of MSW in urban areas and industrial solid waste.  | (5) |
|   | c) Define e-waste. What are the sources of generation of e-waste?   | (5) |

**PART C**

*Answer any two full questions, each carries 20 marks.*

- 7 a) List the effects of urbanization in soil degradation (10)  
b) How sound insulation can be done during construction stage of a building? (5)  
c) What are wastelands and wetlands? (5)
- 8 a) List out the major sources of soil pollution and explain any five . (10)  
b) Discuss about the measurement of sound. (6)  
c) What are the physical and psychological effects of noise. (4)
- 9 a) What are the various sources of noise pollution? How can it be controlled? (10)  
b) What is the importance of pH of soil in its pollution? (5)  
c) Define a) Pitch b) Sound pressure level (5)

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