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



**End Semester Examination – Nov/Dec – 2017**

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|  |  |  |  |
| **Code :** | **17CE3056** | **Duration :** | **3hrs** |
| **Sub. Name :** | **SOLID AND HAZARDOUS WASTE MANAGEMENT** | **Max. marks :** | **100** |

**ANSWER ALL QUESTIONS (5 x 20 = 100 Marks)**

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| **Q. No.** | **Sub Div.** | **Questions** | **Course**  **Outcome** | **Marks** |
| 1. | a. | Classify solid waste based on sources and its types. | CO1 | 10 |
| b. | Describe in details about the purpose of transfer station. | CO2 | 10 |
| (OR) | | | | |
| 2. | a. | Assess the current situation of SWM in India. | CO3 | 5 |
| b. | Describe how a collection system is planned and implemented. | CO4 | 15 |
|  |  |  |  |  |
| 3. |  | Determine the most viable solid waste disposal option for Coimbatore municipal corporation. | CO6 | 20 |
| (OR) | | | | |
| 4. |  | Assess technical viability of various processing techniques. | CO3 | 20 |
|  |  |  |  |  |
| 5. | a. | Assess the environmental effects of composting and biogasification. | CO4 | 5 |
|  | b. | Explain biogasification, identify its advantages. | CO5 | 15 |
| (OR) | | | | |
| 6. |  | Explain various incineration technologies. | CO5 | 20 |
|  |  |  |  |  |
| 7. | a. | Discuss in detail about the energy generation from solid wastes. | CO6 | 10 |
|  | b. | Explain the waste reduction techniques in solidwaste management system. | CO5 | 10 |
| (OR) | | | | |
| 8. | a. | Discuss the elements of recycling programme in solid waste management system. | CO3 | 10 |
|  | b. | Assess the technical options and processes involved in recycling of municipal wastes. | CO4 | 10 |
|  | |  |  |  |
|  | | **Compulsory**: |  |  |
| 9. | a. | Identify and classify hazardous wastes. | CO1 | 10 |
|  | b. | Describe the waste minimisation and pollution prevention techniques in solid waste management system. | CO5 | 10 |

ALL THE BEST