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

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**End Semester Examination – Nov/Dec – 2018**

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| **Code :** | **17CE2041** | **Duration :** | **3hrs** |
| **Sub. Name :** | **MUNICIPAL SOLID 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 wastes. | CO1 | 10 |
| b. | Summarize the features of SWM. | CO1 | 10 |
| (OR) | | | | |
| 2. | a. | Elaborate waste stream analysis. | CO2 | 10 |
| b. | Determine the effects of poor waste management on public health and the environment. | CO6 | 10 |
|  |  |  |  |  |
| 3. | a. | Discuss the various components of a waste collection system. | CO3 | 15 |
| b. | State the purpose of a transfer station. | CO5 | 5 |
| (OR) | | | | |
| 4. | a. | Assess key issues associated with waste disposal. | CO2 | 5 |
| b. | Explain the design, operation and maintenance of sanitary landfill. | CO4 | 15 |
|  |  |  |  |  |
| 5. | a. | Identify the purpose of waste processing. | CO5 | 10 |
| b. | Discuss the need for dewatering and drying of wastes. | CO3 | 10 |
| (OR) | | | | |
| 6. | a. | Explain waste reduction. | CO5 | 10 |
| b. | Identify commonly recycled materials, their use and economic values. | CO4 | 10 |
|  |  |  |  |  |
| 7. | a. | Explain biogasification. | CO5 | 15 |
| b. | List the objectives of incineration. | CO3 | 5 |
| (OR) | | | | |
| 8. | a. | Assess the environmental effects of composting and biogasification. | CO6 | 10 |
| b. | Discuss in detail about incineration processes. | CO5 | 10 |
|  | |  |  |  |
|  | | **Compulsory**: |  |  |
| 9. |  | Determine the most viable disposal option of solid waste for your locality and explain in details about the principle and design of SWM. | CO6 | 20 |