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



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

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|  |  |  |  |
| **Code :** | **14CE2039** | **Duration :** | **3hrs** |
| **Sub. Name :** | **SOLID WASTE MANAGEMENT** | **Max. marks :** | **100** |

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

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Q. No.** | **Sub Div.** | **Questions** | **Course**  **Outcome** | **Marks** |
| 1. |  | Classify and explain solid wastes based on sources and types. | CO1 | 20 |
| (OR) | | | | |
| 2. |  | Discuss the different features of Solid waste management systems. | CO2 | 20 |
|  |  |  |  |  |
| 3. |  | Describe in detail about solid waste generation and composition. | CO1 | 20 |
| (OR) | | | | |
| 4. | a. | Elaborate the health effects of poor solid waste management system. | CO5 | 15 |
|  | b. | State the purpose of transfer station. | CO3 | 5 |
|  |  |  |  |  |
| 5. |  | Discuss in detail about design and implementation of a collection system. | CO4 | 20 |
| (OR) | | | | |
| 6. | a. | Assess the key issues associated with municipal solid waste disposal. | CO5 | 10 |
|  | b. | Describe the different elements of solid waste disposal and its selection criteria. | CO2 | 10 |
|  |  |  |  |  |
| 7. |  | Explain the municipal solid waste processing techniques for reducing the volume and size of the wastes. | CO3 | 20 |
| (OR) | | | | |
| 8. | a. | Identify commonly recycled materials, their use and economic values from municipal solid wastes. | CO3 | 10 |
|  | b. | Assess the technical options and process involved in recycling of wastes. | CO3 | 10 |
|  | |  |  |  |
|  | | **Compulsory:** |  |  |
| 9. |  | Describe the physical, chemical, thermal and biological methods of treating hazardous waste. | CO3 | 20 |

ALL THE BEST