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

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

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| **Code :** | **14CE2041** | **Duration :** | **3hrs** |
| **Sub. Name :** | **AIR POLLUTION 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 and explain air pollutants and its characteristics. | CO1 | 10 |
| b. | Illustrtate the effect of air pollution on human health and materials. | CO1 | 10 |
| (OR) | | | | |
| 2. | a. | Explain smog and Discuss its causes and effects. | CO1 | 10 |
| b. | Examine the importance of wind roses in air pollution studies. | CO1 | 10 |
|  |  |  |  |  |
| 3. | a. | List out various methods of sampling and describe any one in detail. | CO1 | 10 |
| b. | Describe the method of sampling suspended particulates by high volume filteration. | CO1 | 10 |
| (OR) | | | | |
| 4. | a. | Summarise the effect of photochemical smog on human beings, plants, and materials. | CO1 | 10 |
| b. | List the merits and demerits of settling chambers. Give their applications. | CO2 | 10 |
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| 5. | a. | Diagram and explain the principle, construction and working of a cyclone separators. | CO2 | 15 |
| b. | Identify the major components of an electrostatic precipitator. | CO2 | 5 |
| (OR) | | | | |
| 6. | a. | Demonstrate spray towers as an air pollution control equipment. | CO2 | 10 |
| b. | Give examples of common gaseous contaminates control methods and describe any one of them in detail. | CO2 | 10 |
|  |  |  |  |  |
| 7. |  | Demonstrate the methods available to control air pollution by process changes. | CO2 | 20 |
| (OR) | | | | |
| 8. | a. | Defend “The ecological impact of acid rain is quite serious” | CO2 | 10 |
| b. | Discuss the problem of ‘indoor pollution’. Suggest a suitable remedy for it. | CO2 | 10 |
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|  | | **Compulsory**: |  |  |
| 9. | a. | Compose in detail about noise pollution and its control measures. | CO3 | 10 |
| b. | Explain radioactive pollution and its control. | CO3 | 10 |