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

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

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| **Code :** | **14FP3017** | **Duration :** | **3hrs** |
| **Sub. Name :** | **FOOD INDUSTRY 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. | Illustrate the causes and challenges of food waste management. | CO1 | 10 |
| b. | Describe about various legal aspects of food waste generation. | CO2 | 10 |
| (OR) | | | | |
| 2. | a. | Discuss in detail about the composition and characterization of meat and poultry industry waste. | CO4 | 15 |
| b. | Differentiate BOD and COD and state its significance. | CO3 | 5 |
|  | | | | |
| 3. | a. | What are the co products that can be derived from the dairy industries waste and describe in detail. | CO2 | 15 |
| b. | State some of the strategies for minimizing the waste generation in food industries. | CO1 | 5 |
| (OR) | | | | |
| 4. |  | Describe the various methods for the microbial risk management in food waste management. | CO4 | 20 |
|  | | | | |
| 5. |  | State various methods for liquid waste treatment and give the details of the unit operations involved. | CO3 | 20 |
| (OR) | | | | |
| 6. | a. | What is carbon footprint and what is its significance and how it is carried out. | CO2 | 15 |
| b. | Write short notes on sedimentation tank and its application. | CO1 | 5 |
|  | | | | |
| 7. |  | Illustrate the value added products that can be obtained from fruits and vegetable processing industry waste with example. | CO2 | 20 |
| (OR) | | | | |
| 8. |  | What are the characteristics of waste generated in a beverage industry and suggest to get useful byproduct from such industries. | CO3 | 20 |
|  | |  | | |
|  | | **Compulsory**: | | |
| 9. |  | What are all the by products generated from fish processing industries and discuss about various methods of co product recovery from this waste. | CO4 | 20 |