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



**End Semester Examination – Nov / Dec – 2019**

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|  |  |  |  |
| **Code :** | **14FP2012** | **Duration :** | **3hrs** |
| **Sub. Name :** | **FOOD PACKAGING TECHNOLOGY** | **Max. Marks :** | **100** |

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

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Q. No.** | **Sub Div.** | **Questions** | **Course**  **Outcome** | **Marks** |
| 1. |  | Explain the various functions and levels of packaging with examples. | CO1 | **20** |
| **(OR)** | | | | |
| 2. |  | Describe the various methods of two-piece can manufacturing with diagrams showing the steps involved. | CO1 | **20** |
|  |  |  |  |  |
| 3. | a. | Categorize the physical methods of test to evaluate strength of packaging materials. | CO2 | **10** |
|  | b. | Elaborate on the shelf life requirement of food products for packaging. | CO1 | **10** |
| **(OR)** | | | | |
| 4. |  | Discuss the principle and manufacturing stages of blow molding with diagrams. Also appraise the applications of the methods. | CO2 | **20** |
|  |  |  |  |  |
| 5. |  | Explain the process of glass manufacturing with a flow chart and explain glass container manufacturing by blow-blow process with a neat sketch. | CO2 | **20** |
| **(OR)** | | | | |
| 6. |  | Define and review the types of paperboard products used in food packaging with diagrams. | CO2 | **20** |
|  |  |  |  |  |
| 7. |  | Discuss on vertical form-fill-seal machine and its applications in various sectors of food industry. | CO2 | **20** |
| **(OR)** | | | | |
| 8. | a. | Compare conductance sealing and impulse sealing of plastic films. | CO2 | **10** |
|  | b. | List down the methods of printing on food packaging materials. | CO3 | **10** |
|  | | **Compulsory:** |  |  |
| 9. |  | Write down the principle and importance of different gases used. List down the equipment and its working for achieving modified atmosphere packaging. | CO3 | **20** |