**ST. JOSEPH’S UNIVERSITY, BENGALURU -27**

Registration Number:

Date & session:

**M.Sc (FOOD SCIENCE AND TECHNOLOGY) – 2nd SEMESTER**

**SEMESTER EXAMINATION: APRIL 2024**

**(Examination conducted in May/June 2024)**

**FST 2522-FOOD PACKAGING AND TECHNOLOGY**

**(For current batch students only)**

**Time: 2 Hours Max Marks: 50**

**This paper contains 1 printed page and FOUR parts**

1. **Answer any Four of the following 3×4=12**
2. Define Injection Moulding of Plastics.
3. List the sterilization methods for packaging materials that are in primary contact with food.
4. Write a note on Polysaccharide based edible layers.
5. What is Kraft paper? Give its types and applications.
6. Specify the use of ethanol vapour generators in food packaging.
7. Write a note on Two piece drawn and redrawn cans.

**II. Answer any Two of the following 5×2=10**

1. Write notes on mechanical properties of Glass containers.
2. What are bioplastics? Give its applications.
3. List the techniques of surface treatment of plastic packaging materials. Describe the Corona treatment.

**III. Answer any Two of the following 10×2=20**

1. Write notes on Oxygen absorbers, types and factors affecting choice of oxygen absorbent in food packaging.
2. Elaborate the FSSAI regulations on labelling of food with mandatory and voluntary inputs on packaging.
3. Briefly describe the modification of surface conditions with edible active layers in food packaging.

**IV. Answer the following 8×1=8**

1. A type of smart packaging designed to extend shelf life of perishable products and improve their quality is currently being used. The packaging typically works by emitting or absorbing compounds within a packaged product, slowing the rate of microbial growth, moisture loss or gain and oxygen reactions.
2. Identify the packaging method with its types. 4
3. List its advantages and disadvantages. 4