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

**M.Sc (FOOD SCIENCE & TECHNOLOGY) – II SEMESTER**

**SEMESTER EXAMINATION: APRIL 2023**

**(Examination conducted in May 2023)**

**FST 2522 – FOOD PACKAGING AND TECHNOLOGY**

**(For the current batch student only)**

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

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

**I. Answer any Four of the following 3x4=12**

1. Mention the importance of Food Packaging.

2. What are the functional properties of paper packaging?

3. What is bioplastic? Write its importance and uses.

4. What is edible film and its composition?

5. Write the techniques used for sterilization of food packaging.

6. Define Ethicap and write its advantages.

**II. Answer any Two of the following 5x2=10**

7. Write notes on paper-based packaging material.

8. What are the mechanical properties of thermoplastic polymers?

9. Write notes on blow moulding and injection moulding of thermoplastics.

**III. Answer any Two of the following 10x2= 20**

10. Give the classification, types and factors influencing the role of oxygen absorbers in food packaging.

11. Discuss the chemical and physical principles involved in active food packaging adding a note on its scope.

12. Write detailed notes on ethanol vapor generators. Mention its advantages and disadvantages

**IV. Answer the following 8x1=8**

13. In this packaging material boron is used as a key ingredient. This gives strength and robustness to the material. Identify the packaging material and write its properties and its application.