

Seat No.: \_\_\_\_\_

Enrolment No. \_\_\_\_\_

**GUJARAT TECHNOLOGICAL UNIVERSITY****BE- SEMESTER-VII (NEW) EXAMINATION – WINTER 2020****Subject Code:2171404****Date:30/01/2021****Subject Name:Food Packaging Technology****Time:10:30 AM TO 12:30 PM****Total Marks: 56****Instructions:**

1. Attempt any FOUR questions out of EIGHT questions.
2. Make suitable assumptions wherever necessary.
3. Figures to the right indicate full marks.

- Q.1** (a) State rational of packaging? **03**  
(b) What do you understand HVP? What is its significance? **04**  
(c) Prove that in a cubical box porosity is not affected by the size of spherical fruits touching all the sides? **07**
- Q.2** (a) What is pulping? What are precautions are to be taken? **03**  
(b) Write a note on different hazards faced by food? **04**  
(c) What are the precautions are to be taken while placing the order of cans? **07**
- Q.3** (a) Packaging is the scientific way of presenting the food? **03**  
(b) Develop relationship between porosity, true density and bulk density? **04**  
(c) What are the criteria for selecting packaging material for : **07**  
i. Whole milk  
ii. Cheese
- Q.4** (a) Packaging is the artistic way of presenting the food? **03**  
(b) Why metals are preferred over wood, glass and paper for packaging food? **04**  
(c) What are the criteria for selecting packaging material for : **07**  
i. Bread  
ii. Butter
- Q.5** (a) Write a note on Fat bloom? **03**  
(b) What is the information required for developing ideal packaging of food? **04**  
(c) Write a note on Smart packaging? **07**
- Q.6** (a) "Nature is the best packaging material." Explain? **03**  
(b) Discuss researchable areas using glass for packaging material? **04**  
(c) Write a note on self heating food packages? **07**

- Q.7** (a) Why lipolytic rancidity occur? **03**  
(b) Write a note on tear test? **04**  
(c) With sketch explain the working of FFS machine used for packaging? **07**
- Q.8** (a) Write a note on primerosing? **03**  
(b) Why edible films are yet not popular in Indian market? **04**  
(c) Explain “SARAN” plastic films applications. **07**

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