

Seat No.: _____

Enrolment No. _____

GUJARAT TECHNOLOGICAL UNIVERSITY**BE - SEMESTER-VII (NEW) EXAMINATION – WINTER 2018****Subject Code: 2171404****Date: 29/11/2018****Subject Name: Food Packaging Technology****Time: 10:30 AM TO 01:00 PM****Total Marks: 70****Instructions:**

1. Attempt all questions.
2. Make suitable assumptions wherever necessary.
3. Figures to the right indicate full marks.

- Q.1** (a) “Packaging is artistic segment of marketing.” Justify? **03**
(b) Discuss how packaging is affected by the type and place of consumer? **04**
(c) Discuss factors causing deterioration, constituents need to be preserve and suggest suitable packaging material for baby powder foods? **07**

- Q.2** (a) “Packaging means saving for the consumer.” Justify? **03**
(b) What is fat and sugar bloom? **04**
(c) What are the requirements of a label on a food package? Discuss and draw a neat sketch? **07**

OR

- (c) Explain uses PET in food packaging? What are its limitations? **07**

- Q.3** (a) Write a note on blister packaging? **03**
(b) Describe process flow chart for making TFS plate used for food packaging? **04**
(c) Prove that porosity does not change with the change in diameter of spherical fruits touching all the sides of CFB boxes. **07**

OR

- Q.3** (a) “Packaging means PAISE.” Explain? **03**
(b) Write a note on edible packaging? What are its limitations? **04**
(c) In a container granular material of low moisture is filled with 34% porosity. In one batch the porosity was observed to be 32%. Calculate how much more or less percentage of material was filled in each container? What are its consequences? **07**

- Q.4** (a) Write note on coating of glass? **03**
(b) Discuss different identification tests for packaging materials? **04**
(c) Explain Active Packaging with two suitable examples? **07**

OR

- Q.4** (a) Write a note on “SARAN” films? **03**
(b) What are the advantages of using colored glass for food materials? Why they are not acceptable? **04**
(c) How shelf life of packaged food is estimated with the Half value Period Method? **07**

- Q.5** (a) What are functions of liner in Corrugated Fiber board box? **03**
(b) Differentiate between Regenerated cellulose and Paper? **04**

- (c) What are the factors affecting in selection of packaging material for pasteurize milk? **07**

OR

- Q.5** (a) Why Manganese is added during Aluminum can manufacturing as alloying agent. **03**
(b) Describe various methods of pulping of paper? **04**
(c) What are the factors affecting in selection of packaging material for health drink and justify? **07**

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