

MAHARASHTRA ANIMAL AND FISHERY SCIENCES UNIVERSITY, NAGPUR
SEMESTER END THEORY EXAMINATION, B. Tech. (DT)

Semester	: V (V Dean)	Academic Year	: 2023-2024
Course No.	: DT-508	Course Title	: Packaging of Dairy Products
Credits	: 2+1=3	Total Marks	: 50
Day & Date	: Wednesday, 15/05/2024	Time	: 2.00 hrs.

- Note :** 1) All questions from **Section 'A'** are compulsory.
2) Solve **Any Three** questions from **Section 'B'**.
3) Draw neat and well-labeled diagrams wherever necessary.

SECTION –‘A’

- Q. 1 A) Define the following. (05)
- Passivation
 - Calendering
 - Active packaging
 - Laminates
 - Controlled atmosphere packaging
- B) Answer in one line. (05)
- What is meant by Tin plate?
 - When and where the first Indian Institute of Packaging was established?
 - What is meant by packing and package?
 - What is the common thickness of Aluminium foil?
 - State the packaging materials used for Lassi.
- Q. 2 A) Write the any two packaging forms of following materials. (05)
- Paper
 - Glass
 - Metal
 - Plastics
 - Laminates
- B) Choose the most appropriate answer from the options given below. (05)
- Collapsible aluminum tubes are used for packaging
 - Table butter
 - Processed cheese
 - Basundi
 - None of these
 - Which of the following packaging materials used for primary butter packaging?
 - Vegetable parchment paper
 - Polyamind
 - Polyethylene
 - Plastic
 - The packing generally used as secondary package in dairy is
 - Cardboard boxes
 - Aluminum foil
 - Tin can
 - Laminates

(P.T.O.)

- iv) Can is used for packaging of
- | | |
|-----------|-----------------|
| a) Solid | b) Semi-solid |
| c) Powder | d) All of these |
- v) Cryovac is
- | | |
|--------|---------|
| a) PVC | b) PVDC |
| c) PE | d) PET |

SECTION –‘B’

- Q. 3 A) Discuss recent advances in food packaging technology. (05)
B) What is aseptic packaging? Explain its process in detail. (05)
- Q. 4 A) Enumerate the different characteristics of paper. Describe in short various forms of paper used in packing milk. (05)
B) Give the basic classification of packaging material with example. (05)
- Q. 5 A) Write the advantages and disadvantages of glass as a packaging material. (03)
B) What is a retort pouch? Mention its advantages over metal packaging material. (03)
C) Define edible packaging. Write its advantages in short. (04)
- Q. 6 A) Write a short note on the packaging of dried milk. (03)
B) Discuss legal requirements of packaging material. (03)
C) Explain the characteristics of the packaging material used for butter. (04)
- Q. 7 Describe briefly the main criteria for the selection of packaging material and write suitable packaging materials used for the below-mentioned products. (10)
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|--------------|
| a) Ice Cream |
| b) Yoghurt |
| c) Cheese |
| d) Ghee |
