

G. S. Mandal's
 Maharashtra Institute of Technology, Aurangabad
 (An Autonomous Institute)
 END SEMESTER EXAMINATION
First Year M.Tech(FPT) -April/May 2022

Course Code : MTF103
 Duration : 2 Hrs

Course Name : Adv. In Food Pkg. Tech.
 Max. Marks : 50 Date : 09/04/2022

Instructions :

- i) All questions are compulsory
- ii) Assume suitable data wherever necessary and clearly state it
- iii) Figures to the right indicate full marks

Q. 1	Solve/Answer Any Five (Marks: 10)			
	Questions	Marks	CO	BL
a)	Describe the basic functions of packaging.	2	4	2
b)	Explain Non-migratory Bioactive Polymers (NMBP) with suitable example.	2	2	2
c)	Define the terms: Modified Atmospheric Packaging and Controlled Atmospheric Packaging	2	1	1
d)	Define the term aseptic packaging along with their meeting criteria's.	2	1	1
e)	Enlist the factors responsible for controlling the shelf life of food	2	4	1
f)	Enlist the protective functions of packaging.	2	4	1
Q. 2	Write a short note on any two of the following: A. O ₂ absorbers, B. CO ₂ absorbers, C. Antioxidant releaser, D. Flavour/odour absorber	8	3	3
Q. 3	Define the term TTIs. Classify TTIs on the basis of their applicability.	8	3	3
Q. 4	Explain in detail about the type of methods used for creating Modified Atmosphere (MA).	8	2	4

Q. 5	Classify non-migratory bioactive polymers in detail. (OR)	8	5	4
Q. 5	Define bioactive packaging and explain the functions and sources of bioactive agents used in bioactive packaging.	8	5	4
Q. 6	Compare active and intelligent packaging systems. Classify active and intelligent packaging briefly? (OR)	8	6	5
Q. 6	Summarize key properties of different packaging materials associated with food.	8	4	5