Food Science and Nutrition (P.G.) [CBCS]

M.Sc. Second Semester End Examination-2024 (Regular & Supplementary Paper) PAPER-MFSN 202

Full Marks: 40

Time: 02 Hrs

The figures in the right hand margin indicate marks

Candidates are required to give their answers in their own words as

far as practicable

Illustrate the answers wherever necessary

Group A

1. Answer any five questions of the following:

5x2 = 10

- a. What is Scintillator?
- b. Write any two features of an ideal primer.
- c. What do you mean by secondary metabolite?
- d. Write the names of any four detectors used in HPLC.
- e. Why fresh meat is bright red but non-fresh meat is brown or pale colour?
- f. Why wooden strips are used for fruits and vegetable packaging
- g. What do you mean by CLIA and FIA?
- h. What do you mean by Rf value?

Group B			
2.	Answer any four questions of the following: 4x5=	= 20	
a.	Describe the process of specific antibody separation by aff	ific antibody separation by affinity	
	chromatography.	5	
b.	State the standard root of GMP followed food industry.	5	
c.	What is nanosenor packaging? Describe CAP for food storage		
	and transport.	2+3	
d.	Write the difference between hygiene and sanitation. State	e the	
	importance of personal hygiene and food handling habits in food		
	safety. $2\frac{1}{2}$	+2½	
e.	Describe about the QACs with their advantages and	dis	
	advantages.	5	
f.	Discuss the sanitary consideration and sanitary evaluation	n of	

Group C

3+2

3. Answer any one question of the following: 1x10=10

food plants.

- a. Describe the principle and working procedure of Scintillation counter. State the difference between isocratic and analytical 2+5+3 HPLC.
- b. Discuss the principle and procedure of calcium quantification in fruit juice. What is chromatographic finger printing? 2+6+2