# PSG COLLEGE OF ARTS & SCIENCE (AUTONOMOUS)

## MSc DEGREE EXAMINATION MAY 2025

(Second Semester)

## Branch - FOOD TECHNOLOGY MANAGEMENT

## GRAIN SCIENCE TECHNOLOGY

Time: Three Hours

Maximum: 75 Marks

#### SECTION-A (10 Marks)

Answer ALL questions

ALL questions carry EQUAL marks

 $(10 \times 1 = 10)$ 

ALL questions carry EQUAL marks (10 x 1 - 10)									
Module No.	Question No.	Question	K Level	CO					
1	1	Cereal grains belong to a) Chenopodicea b) Polygonaceae c) Gramineae	K1	CO1					
	2	d) Fabaceae  The moisture content of cereals considered safe for cereal storage is a) 15% b) 14% c) 16% d) 17%	K2	CO1					
2	3	Removal of husk from rice increases its a) Protein content b) Soluble fibre c) Insoluble fibre d) Vitamins	K1	CO3					
	4	The sticky consistency of rice after cooking is due to a) Alpha amylase b) Lipase c) Oxidase d) Protease	K2	CO3					
3	5	Tricum durum is known as a) Bread wheat b) Macaroni wheat c) Club wheat d) Buck wheat	K1	CO2					
	6	The pigment present in wheat flour is  a) Anthocyanin b) Lycopene c) Xanthophylls d) Chlorophyll	K2	CO2					
4	7	Which of the following Bioactive compounds present in barley except?  a) Beta glucan b) Phenolics c) Polysterols d) Reservatrol	K1	CO4					
	8	is a type of non-starch polysaccharide found in the cell wall of millets like pearl or finger millets known to be bound with phenolic acids.  a) Lignin b) Anthocyanin c) Flavanoids d) Arabinoxylans	K2	CO4					
5	9	Other name of poly agglutinin is  a) Trypsin inhibitor b) Lectin c) Lecithin d) Tannin	K1	CO5					
	10	Transforming the raw food into variety of food products preferred by consumers is called	K2	COS					

23FTP207 Cont...

#### SECTION - B (35 Marks)

### Answer ALL questions

ALL questions carry EQUAL Marks

 $(5\times7=35)$ 

Module No.	Question No.	Question	K Level	СО
	11.a.	Elaborate on the postharvest losses taking place in cereals.		
1	(OR)			CO1
	11.b.	Outline the milling process of corn.		
	12.a.	Identify the factors affecting the cooking quality of pulses and suggest suitable cooking methods for pulses.		CO3
2		(OR)	] K3	
	12.b.	Outline the Indian food safety standards for rice.	:	
	13.a.	Examine the pros and cons, usage of chemical improvers in wheat flour.		
3	(OR)		K3	CO2
	13.b.	Discuss the uses/function of steamed wheat products in food industry.		-   
	14.a.	Identify and explain the bioactive compounds present in pearl millets.		
4	(OR)		K3	CO4
	14.b.	Explain whether the processing of millets is advantageous or disadvantageous.		
	15.a.	Compare wet and dry milling of pulses.		į
5		(OR)		CO5
ļ	15.b.	Discuss on various categories of snack foods.	Ì	

#### SECTION -C (30 Marks)

Answer ANY THREE questions

ALL questions carry EQUAL Marks

 $(3 \times 10 = 30)$ 

Module No.	Question No.	Question	K Level	СО
1	16	Explain about Pseudo cereals and their role in food industry.	K4	CO1
2	17	Point out the importance of rice processing and its by products utilization.	K4	CO3
3	18	Enzymes play a crucial role in production of wheat products — Justify.	K4	CO2
4	19	Discuss on the need for quality control and standards of millet based products.	К3	CO4
5	20	Sketch out the barriers in the utilization of oil seed proteins as food or fodder.	К3	CO5