## AU-1141

## M.Sc. (Home Science) (Food Science and Nutrition) Semester-I Examination 112FS45: FOOD SCIENCE

Time	: 2.30 Hours]	[Maximum Marks : 60
1.	Answer any one of the following:	
1	.1 Write in detail about the physical properties of water.	
1	.2 Write in detail about the types of food dispersions.	12
2. /	Answer in two-three sentences :	
2	.1 Write the chemical composition of starch.	2
2	.2 Write about the Gluten formation.	2
2	.3 Gelatinisation.	2
2	.4 Stages of sugar cookery.	2
2	.5 Difference between batters and dough.	2
2	.6 Process of crystalisation.	2
3. I	Do as directed :	
3	.1 Functional properties of fat (Tenderness).	2
3	.2 'Mayonnaise' (Type of emulsion and procedure).	2
3	.3 Trans fatty acids (Name).	2
3	.4 Fat substitutes (Meaning).	2
3	.5 Fat deterioration (Chemical changes).	2
3	.6 Antioxidants (Definition).	2
VOX	35919 1	(Contd.)

## www.sgbauonline.com

## 4. Match the following pairs:

	4.1	Group-A Group-B		up-B		
		(î)	Milk protein	(a)	Ovalbumin	
		(ii)	Egg-white protein	(b)	Globulins	
		(iii)	Connective tissue protein	(c)	Soya proteins	
		(iv) Pulse protein		(d)	Casein	
		(v)	Egg-yolk protein	(e)	Collagen	
		(vi)	Texturised vegetable proteins	(1)	Phosvitin	6
	4.2	4.2 State whether the following statements are true or false.			true or false.	
		4.2.1 Milk is the normal secretion of the mammary gland of mammals.		nammary gland of mammals.	†	
		4.2.2 Egg contains about two parts yolk to one part egg white by wei		to one part egg white by weight.	1	
		4.2.3 Meat contains 15-20 percent proteins of outstanding nutritive value.		ns of outstanding nutritive value.	1	
		4.2.4 Fish oils are the richest sources of Vitamin A and D.		Vitamin $\Lambda$ and $D$ .		
		4.2.5 Toxic substance present in pulses cause a disease Lathyrism.		ause a disease Lathyrism.		
		4.2.6 Tenderness is not the most desired quality in meat.		quality in meat.	Į	
Answer any one of the following:						
	5.1	1 Write in detail about the pigments present in fruits and vegetables.		12		
	5.2	2 Write in detail about the role of enzymes in food processing.		: ]		

5.