No.	of	Printed	Pages	:	2	
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00429

MFT-001

POST GRADUATE DIPLOMA IN FOOL
SCIENCE AND TECHNOLOGY (PGDFT

Term-End Examination
December, 2016

MFT-001: FOOD CHEMISTRY AND NUTRITION

Time	: 3	hours Maximum Marks	: 70
Note	:	Attempt all questions. Attempt two sub-parts questions 1-6 and Four short notes from question 7 questions carry equal marks.	
1.	(a)	Explain the process of digestion and absorption of Carbohydrates in human body.	5
٠	(b)		5
	(c)	277 1 24 66 141	5
2.	(a)		5
	(b)	present in cereals and legumes. Explain the process of conversion of muscle to meat.	5
	(c)		1+4
3.	(a)		5
	(b)	of sugar. List physical properties of milk and explain any two physical properties.	5

	(c)	Classify vitamins. Write the sources and functions of vitamin A.	2+3
4.	(a)	Describe the signs and symptoms of Protein Energy Malnutrition.	5
	(b)	Define balanced diets. What are the basic principles to be considered while formulating balanced diets?	2+ 3
	(c)	Discuss the functions, sources and deficiency of calcium.	5
5.	(a)	Discuss the factors that affect the bioavailability of minerals.	5
	(b)	Write a note on the essential fatty acid composition of meat and fish. What is the importance of EFA?	2+3
	(c)	Write a note on the quality of cereal and pulse proteins. How do they compare with animal proteins?	3+2
6.	(a)	Write a note on the effect of pesticide residues on health. What precautions can we take to reduce our exposure to pesticide residues?	3+2
	(b)	How is dietary fibre classified? Discuss the importance of dietary fibre in human health.	1+4
	(c)	Discuss the deficiency of iron. List the dietary sources of iron.	3+2
7.			4=10
	(a)	Water activity	
	(b)	Non - starch polysaccharides	
	(c)	Food preservatives	
	(d)	Enzymatic browning	
	(e)	Causes of Vitamin D deficiency	