Roll Tota		o. Total No. of Pages : 02
100	a1 1	Master of Science (Food Technology) (Sem1) NUTRACEUTICALS & FUNCTIONAL FOODS Subject Code: UC-MSFT-517-19 M.Code: 77277
Time: 3 Hrs. Max. Marks		
1. 2.	SE ha SE Su	JCTIONS TO CANDIDATES: ECTION-A contains SEVEN questions carrying TWO marks each and students is to attempt ALL questions. ECTIONS-B consists of FOUR Subsections: Units-I, II, III & IV. Each obsection contains TWO questions each carrying FOURTEEN marks each and udent has to attempt any ONE question from each Subsection.  SECTION-A
1.	$\mathbf{W}_{1}$	rite briefly:
		Define Functional Food and its nutritional importance.
	b)	Write about the health benefits of functional/nutraceutical food.
	c)	What are different categories of nutraceutical foods?
	٦/	How functional food are classified on the basis of type?
	d)	flow functional food are classified on the basis of type?
	<ul><li>a)</li><li>e)</li></ul>	Which ingredients are present in cereal as functional foods?

## **SECTION-B**

## UNIT-I

2.	a)	What is chemical and biochemical nature and classification of nutraceuticals?	(6)
	b)	Write about the scope of functional food in Indian market and its present status.	(5)
	c)	How science of functional food and that of medicine is related?	(3)
3.	a)	Elaborate the mechanism of action of functional food.	(5)

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	b)	What type of functional food acts as antioxidants? How this nature of food makes functional food?	s it a (6)
	c)	Write a note on functional food markers.	(3)
		UNIT-II	
4.	a)	Write notes on (a) functional vegetables (b) functional cereals.	(6)
	b)	Which components of food grains contain functional ingredients? How these functional ingredients are made available for being used as functional food or as functional ingredient.	
5.	a)	Discuss the role and scope of nutraceutical specific food for the cure of cancer, has disease and natural stress.	heart (8)
	b)	How the functional food are being replaced or employed along with other medicine cure/reduce the effect of chronic disease?	es to (6)
		UNIT-III	
6.		aborate the properties of functional ingredients and the utilization of these naterials as functional food/ nutraceutical food:	tural (14)
	a)	Herbs b) Tea c) Legumes	
7.	a)	Name, define and elaborate the anti-oxidative characteristics of various pher (bioactive) compounds.	nolic (7)
	b)	Elaborate various dietary fibers and other carbohydrates role which acts as function foods and have nutraceuticals importance.	ional (7)
		UNIT-IV	
8.	a)	What regulations govern the functional food characteristics?	(3)
	b)	How the functional nature of food is assessed and maintained.	(6)
	c)	Elaborate the use of functional food to check the activity of various food inhibitors.	(5)
9.	a)	Write a note on the recent developments in the preparation of functional food.	(4)
	b)	Discuss the role of storage and the environment on the characteristics of functional a whole. How we can preserve the quality of these foods during storage.	food (10)

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NOTE : Disclosure of Identity by writing Mobile No. or Making of passing request on any page of Answer Sheet will lead to UMC against the Student.