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M.Tech(Food Technology) (2018 Batch) (Sem.-1) FOOD SAFETY AND QUALITY ASSURANCE Subject Code : MTFT-513-18 M.Code : 75600

Time : 3 Hrs.

Max. Marks : 60

INSTRUCTIONS TO CANDIDATES : 1.Attempt any FIVE questions out of EIGHT questions. 2.Each question carries TWELVE marks.

1.	a)	How the sensory panelist are selected? Name various testes used to select se panellist and explain any two. (2	nsory (+4)
	b)	What are a sample and its requirements? Explain acceptance sampling plan random sampling plan.	n and (6)
2.	a)	Write about working of a Food Safety and Management Systems (FSMS).	(3)
	b)	Discuss the Key benefits of FSMS.	(4)
	c)	Explain sampling risks. What are double and multiple sampling plans. Explain any example.	with (5)
3.	a)	Explain the criteria of production of safe food.	(3)
	b)	How we produce safe food by implying HACCP concept?	(3)
	c)	What is FSSA-2011? Discuss about working of FSSA-2011.	(6)
4.	a)	What is null hypothesis and test of significance? Discuss. What are analys variance and its significance?	sis of (6)
	b)	What is ISO 9000 and ISO-22000? Discuss the implementation procedure for ISO- 22000 in the food industry.	or the (6)

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5.	a)	How auditing helps to overcome GAP in the ISO implementations? Explain au methodology in SIO certification	diting (5)
	b)	How HACCP works? What steps are required to be taken to have effective Halplan? Draw HACCP plan for a vegetable canning line.	ACCP 2+5)
6.	a)	How FAO works in order to achieve the aim and objective laid down in its prear	mble. (4)
	b)	What are WHO and its objective? Write about its achievements and work plan.	(4)
	c)	Elaborate the role of FAO and WTO in controlling hunger and food supply.	(4)
7.	a)	How the product quality is governed in TQM system	(4)
	b)	What is objective IPR and patent laws?	(4)
	c)	Write role of GATT in dispute resolution. How it works?	(4)
8.	a)	Discuss adulteration and its detection in turmeric powder, chilli powder preservatives in milk.	r and (5)
	b)	What type of adulterants are added in black pepper, clove and chilli whole.	(2)
	c)	Write the method steps for detection of following adulterants	(5)
		i) Artificial prohibited colour in powdered spices	
		ii) Adulterants in cinnamon, coriander, asafetida,	
		iii) Papaya seed, powdered bran in spices	

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.



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