Roll No. Total No. of Pages : 02

Total No. of Questions: 09

# B.Sc. - Honours (Food Technology) (Sem.-1) INTRODUCTION TO FOOD SCIENCE

Subject Code: BSFT111-21

M.Code: 91382

Date of Examination: 14-01-23

Time: 3 Hrs. Max. Marks: 60

## **INSTRUCTIONS TO CANDIDATES:**

- 1. Section-A is compulsory. It consists of SIX short answer questions of TWO marks each.
- 2. SECTIONS-B consists of FOUR Sub-sections: Units-I, II, III & IV.
- 3. Each Sub-section contains TWO questions each, carrying TEWLVE marks each.
- 4. Student has to attempt any ONE question from each Sub-section.

#### **SECTION-A**

## 1. Discuss Briefly:

- a. Intermediate moisture food
- b. Water activity
- c. Grading of eggs
- d. Climacteric fruits
- e. Functional foods
- f. GM Foods

## **SECTION-B**

## **UNIT-I**

- 2. a) Explain the different functions of major and minor nutrients with the example and their calorific/energy values.
  - b) What do understand by proximate analysis?

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c) What do you understand by food engineering and food technology?

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3.	a)	elaborate with their structure.	6
	b)	Define water activity and relate the water activity of food to the shelf life of food with their further classification related to water activity?	th 6
		UNIT-II	
4.		scuss the processing methods used for the processing of pulses related to the ant tritional factors, and explain three processing methods in detail.	i- 2
5.	a)	What do you understand by food dispersion, write the different types of food dispersion in food science.	d 4
	b)	Write the nutritive composition of wheat, name the storage protein and name the tw different components of which protein is made up?	o 4
	c)	Draw the structure of wheat.	4
		UNIT-III	
6.	a)	What do understand by lipids and write the different functions possess by lipids?	6
	b)	What do you understand by spice and herbs, give an example of each.	6
7.	a)	Write the classification of fruits with examples?	4
	b)	Difference between climacteric and non-climacteric fruits?	4
	c)	Write the different classifications of vegetables with examples?	4
		UNIT-IV	
8.	a)	Write the nutritive composition of the egg and draw the structure of the egg?	6
	b)	Explain the different parameters to assess the internal and external quality of eggs?	6
9.	a)	Write the nutritive composition of meat. Also, differentiate between red and whit meat with examples?	te 6
	b)	Write the nutritive values of fish. What are the different classifications of fishes wit examples?	th 6
NOT	<b>E</b> : l	Disclosure of Identity by writing Mobile No. or Marking of passing request on an	y

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paper of Answer Sheet will lead to UMC against the Student.