Total No. of printed pages = 3

19/3rd Sem/DFET301

CENTRAL

2021

INTRODUCTION TO FOOD PROCESSING AND PRESERVATION TECHNOLOGY

Full Marks - 100

Time - Three hours

The figures in the margin indicate full marks for the questions.

Answer any five questions.

 (a) Define carbohydrates. Write two sources of carbohydrates. Classify the carbohydrates and explain each class with examples.

1+2+6=9

(b) What is dietary fiber ? Write a short note on digestion and absorption of carbohydrates.

1+4=5

(c) Write the names of any two monosaccharide, two disaccharide and two homopoly-saccharide. 2+2+2=6

Turn over

- (a) Define essential amino acids. Enlist the names of essential amino acids. 2+4.5=6.5
 - (b) Describe the principles of food preservation.
 - (e) Differentiate between refrigeration and freezing.
 - (d) Explain slow-freezing, quick-freezing and dehydro-freezing process of foods.
 4.5
- (a) What is pasteurisation? Write the objectives of pasteurization. Write the time and temperature for milk pasteurization process.
 1+2+2=5
 - (b) Describe the general procedures of canning process. 7
 - (c) Write about four types of spoilage in canned foods.
 8
- (a) Define preservatives. Classify preservatives as per PFA. 1+4=5
- (b) Name three chemical preservatives permitted in fruit and vegetable products. Explain the mode of action of benzoic acid. 3+3=6

- (c) How does oils, spices and condiments help in preservation ?
- (d) Explain the preservation principles of sodium chloride 5
- (a) Describe preservation of foods by fermentation.
 - (b) Describe the pickling as a method of food preservation.
- 6. Write short notes the following: 5×4=20
 - (a) Food irradiation
 - (b) Preparation of jam
 - (c) Preparation of jelly
 - (d) Preparation of marmalade.
- (a) Define packaging. Describe the various functions of packaging. 2+10=12
 - (b) What are the types of packaging? Explain with suitable examples.
 - (c) What are considered as the mechanical hazard for packaging?

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(3)

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