Ref. No.: Ex/FTBE/PC/B/T/325/2023(S)

# BE (FTBE) 3<sup>RD</sup> YEAR 2<sup>ND</sup> SEMESTER SUPPLEMENTARY EXAMINATION 2023

#### FOOD PROCESS TECHNOLOGY-IV

Time: Three hours

Use separate Answer script for each Part.

Full Marks: 100

50 marks for each Part.

### PART I (50 Marks)

#### QI. Describe briefly with schematic diagrams (any two):

 $2 \times 5 = 10$ 

- 1. Carbonation of soft drinks
- 2. Aromatization of coffee
- 3. Technical enzyme preparation

## QII. Answer the following (any two):

 $2 \times 20 = 40$ 

- 1. Comparatively discuss the two 'processes at origin' for manufacture of coffee.
- 2. How is the soluble solid (SS) content increased during manufacture of instant coffee powder?
- 3. Describe use of enzymes in preparation of sugar syrup of 'cola drink' for its desirable flavor and consistency.
- 4. Enumerate the role of the following enzymes in food processing [choosing appropriate food product(s) for each enzyme]:
  - 1. Pectinases
  - 2. Fungal  $\alpha$ -amylase
  - 3. Catalase
  - 4. Papain

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# B.E. FOOD TECHNOLOGY AND BIO-CHEMICAL ENGINEERING THIRD YEAR SECOND SEMESTER SUPPLEMENTARY EXAM - 2023

#### FOOD PROCESS TECHNOLOGY IV

Total Marks: 100 Time: 3hours Part II (Marks 50) Answer any **five** questions from the following: 5x10 1. State the main constituents of milk. Explain about casein of milk. Explain any three factors affecting composition of milk. 2+3+52. Differentiate between: a) toned milk and double toned milk. b) whole milk and skimmed milk? 2.5+2.5+5c) sweetened condensed milk and evaporated milk. 3. a) What is the function of stabilizer in icecream preparation. What is meant by over run of icecream? b) 950L of ice-cream was made from 458L of ice-cream mix. Find % over run in ice cream. 3+3+4 4. What is homogenization? What are the advantages of homogenization of milk? 2+3+5How homogenization index is determined? 5. Explain about green tea and decaffeinated tea 5+5 6. Mention the fat content of low fat cream ,medium fat cream and high fat cream. Explain ripening of cream? 4.5 + 5.57. Write short notes on any two from the following: 2x5 a)Oolong tea b)Advantages of HTST pasteurization.c) whey protein