Exam.Code:1502 Sub. Code: 9741

Max. Marks: 60

(4x3)

1057

R-THON

B. Voc. (Food Processing and Preservation) Fourth Semester BFP-405: Food Engineering

Time allowed: 3 Hours

NOTE: Attempt <u>five</u> questions in all, including Question No. I which is compulsory and selecting one question from each Unit.

x-x-x

- I. Explain the following:
 - a) Irradiation
 - b) Electric field pulse
 - c) Reverse osmosis
 - d) Micro filtration

<u>UNIT – I</u>

II.	Discuss the general	principal and	d advantages of	extrusion in details?	(12)
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III. Describe the principle behind hydrostatic pressure technology and its application in the food industry? (12)

- UNIT II
- IV. Differentiate between the following:a) Nano filtration and Micro filtration
 b) Reverse osmosis and Ultra filtration
 c) Heated foods and Chilled foods (3x4)
 V. a) Explain the applications of hurdle technology in dairy industry?'
 b) What do you understand by the term intermediate moisture foods? (8,4)
 UNIT III
 VI. Discuss the role and application of electric field pulses in bakery industry? (12)
- VII. Explain the following:
 - a) Ionizing radiation
 - b) Irradiation

(2x6)

P.T.O.

(2)

<u>UNIT – IV</u>

- VIII. Differentiate between the following:
 - a) Homogenization and Emulsification
 - b) Mass transfer and Heat transfer
 - c) Ultrasound and Immobilized enzyme technology

(3x4)

IX. Explain the methods of immobilization and use of immobilized enzymes in food processing industry in details? (12)

x - x - x