Total No. of printed pages = 3

PG/1st Sem/PFET 1111

ENTRA

2021

MODERN FRUITS AND VEGETABLES PROCESSING TECHNIQUES

Full Marks - 100

Time - Three hours .

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

Answer any five questions.

- (a) Write short notes on the following sanitizers used in the pre-processing (washing) of fruits and vegetables : 3+3=6
 - (i) Chlorine
 - (ii) Chlorine dioxide.
 - (b) How advanced thermal processing methods differ from traditional thermal processing technologies ? 4
 - (c) Write in detail about the thin profile processing of foods. 10

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- (a) List the principles governing the effects of HPP in foods. Explain about any two principles associated with the effect of HPP in foods. 4+6=10
 - (b) Write about the role of enzymes in the apple juice clarification process with proper schematic diagram. 10
- (a) Give the flow chart for the production process of following products: 5+5=10

(i) Cordials

(ii) Nectars.

- (b) Explain the manufacturing process of fruit preserves with neat flow chart. 10
- (a) Write in detail about the different theories for gel formation.
 - (b) Define texture of food. Why measurement of texture is important to determine the quality CENTR of food ? 1+2=3

7

(c) Explain the TPA test in detail.

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- (a) Define food adulterant and adulteration with its types. Mention the adulterant and its detection procedure for any one sweeting agent and one oil and fat food product.
 - 10
 - (b) Describe two techniques for microbial load count in a food sample. 10
- 6. (a) Define colour of food. What are the attributes that are measured in colour measurement? Mention the formulas required for it. 5
 - (b) Explain the working principle and procedure of colour measurement in details. 10
 - (c) What are the factors that affect the microbial growth? 5
- 7. (a) Explain the working principle of PCR. 10
 - (b) How PEF works in food preservation? Explain its working principle. 10



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