Total No. of printed pages = 3

19/3rd Sem/DFET303

CENTRAL

2021

FOOD PRODUCT TECHNOLOGY-I

Full Marks - 100

Time - Three hours

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

Answer any five questions.

- (a) What are oilseeds? Describe the steps in extraction of oil from oilseeds. 2+8=10
 - (b) Explain the processing of vegetable oils with proper flow diagram. 10
- (a) What is hydrogenation? Describe the process of hydrogenation. 1+5=6
 - (b) What is meant by plasticity of fat? 2
 - (c) Explain the wheat flour milling process.
 - (d) Describe the cleaning operations of wheat grains.

[Turn over

- 3. (a) Explain evaporative cooling. How can evaporative cooling benefit the farmers in the field?
 3+3=6
 - (b) What is the principle behind controlled atmosphere (CA) and modified atmosphere (MA) storage? Enlist some benefits and limitations of CA and MA storage.

3+7+4=14

- (a) Write a detail note on Post harvest preliminary processing operations of fruits and vegetables.
 - (b) Explain the mechanism of drying of fruits and vegetables. Give suitable diagram. 5
 - (c) What is osmotic dehydration? Describe the mechanism of osmotic dehydration with proper diagram. 1+4=5
- (a) Give FPO specification of TSS and fruit pulp/juice content for jam, jelly, and marmafor jam, jelly, and marma-
 - (b) Write a note on Fruit Product Order. 6

(c) Write short notes on:

2×4=8

- (i) Sheet test
- (ii) Drop test
- (iii) Temperature test
- (iv) Refractometer test.
- Write short notes on any two of the following: 10×2=20
 - (a) Tomato ketchup/Sauce
 - (b) Tomato puree/Paste
 - (c) Preparation of Chutney.
- (a) Describe the canning process of fruits and vegetables.
 - (b) Write about the applications of by-products of fruits and vegetables processing industry.

