M.VOC. 1ST SEMESTER EXAMINATION-2022

Department of Nutrition, Mugberia Gangadhar Mahavidyalaya

PAPER-FUNDAMENTALS OF FOOD TECHNOLOGY -II (FTNM12T) [THEORY] Full Marks: 40 **Time: 2 Hours**

The figures in the margin indicate full marks. Candidates are required to give their answers in their own words as far as practicable.

1.	Answer any	v five	questions.
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- a. How do we can determine specific gravity of a granular insoluble solid that is lighter than water?
- b. What is thermister?
- c. How raw material availability influences plant size and capacity?
- d. Differentiate between documents and records.
- e. What is nectar?
- f. Why fillers are added in baking powder?
- g. Write the changes in pectic substances in fruits during the ripening.
- h. Describe the application of Beer-Lambert's Law in spectrophotometer.
- 2. Answer any four questions
 - a. Write a brief description about thermocouple & LVDT gauge.(2.5+2.5)
 - b. How do we can treat liquid and gaseous waste in food plant industry?
 - c. Describe sugar batter method for cake manufacturing process.
 - d. Briefly describe the tempering step involved in chocolate manufacturing process.
 - e. What are the characteristics of hard wheat flour and soft wheat flour?
 - f. Write the importance of blanching operation during vegetable processing.
 - 10x1 3. Answer any one question. a. A platinum resistance thermometer has resistance of 3.8 ohm at 0 ^oCand 5.8 ohm at 100^oC. Calculate the temperature when resistance thermometer indicated as 6.8 ohm.

Define vacuum, absolute and gauge pressure.

Write short note on HPLC. (4+2+4)

b. With a flow diagram briefly describe main processing steps involved in black tea processing. 10

5x2

4x5