# M.VOC. $1^{\text {ST }}$ SEMESTER EXAMINATION-2022 <br> 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 five questions.

5 x 2
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 4x5
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.
3. Answer any one question.

10x1
a. A platinum resistance thermometer has resistance of 3.8 ohm at $0{ }^{\circ} \mathrm{Cand} 5.8$ ohm at $100^{\circ} \mathrm{C}$. Calculate the temperature when resistance thermometer indicated as 6.8 ohm .
Define vacuum, absolute and gauge pressure.
Write short note on HPLC.
b. With a flow diagram briefly describe main processing steps involved in black tea processing.

