Roll No. ☐☐☐☐☐☐☐☐☐☐☐☐☐   Total No. of Pages : 02

Total No. of Questions : 18

B.Tech. (Food Technology)   (Sem.–5)

FOOD ANALYSIS AND QUALITY CONTROL
Subject Code : BTFT-504
M.Code : 78649

Time : 3 Hrs.   Max. Marks : 60

INSTRUCTIONS TO CANDIDATES :
1. SECTION-A is COMPULSORY consisting of TEN questions carrying TWO marks each.
2. SECTION-B contains FIVE questions carrying FIVE marks each and students have to attempt any FOUR questions.
3. SECTION-C contains THREE questions carrying TEN marks each and students have to attempt any TWO questions.

SECTION-A

Write briefly :

1) Differentiate between the transmisssion and refraction of Light.

2) Differentiate between Hue and chroma.

3) a) How will you define flavor?

   b) Define Flavour. How is the taste perceived on tongue?

4) What is the difference between Shear rate & shear stress?

5) What do you understand from viscoelastic foods?

6) What do you understand by term Retention Factor (R_f)?

7) How does the NIR spectroscopy works.

8) What are the units of measurement of Hardness, Resilience and springiness in TPA?

9) What is the usefulness of measuring the electrical conductivity in food?

10) What is the principle of Gram Staining?

SECTION-B

11) What is the principle of munsell colour model?

12) a) How are the pungency perceived by the human beings.

    b) Differentiate between the Gas Chromatography and High Pressure Liquid Chromatography.

13) What is the importance of rheolgy in the food industry?

14) What is the principle of Nuclear Magnetic Resonance? How is it used to check adulteration in honey?

15) Write down the principle and procedure of column chromatography.

SECTION-C

16) Explain in detail the CIE Lab Model. What is the difference in colorimeter and spectrophotometer?

17) Explain in detail the various types of non-Newtonian flow behaviour along with suitable Examples.

18) Explain in details the paired comparison, duo-trio, triangle and multiple sample tests.

NOTE : Disclosure of Identity by writing Mobile No. or Making of passing request on any page of Answer Sheet will lead to UMC against the Student.