



KERALA AGRICULTURAL UNIVERSITY
B.Tech.(Food Technology) 2021 Admission
V Semester Final Examination – January 2024

Beas.3110

ICT Applications in Food Industry (1+2)

Marks: 50
Time: 2 hours

I Answer the following

(10x1=10)

1. An example for data type in LabVIEW.
2. Service that provides server space to make a website accessible on the Internet?
3. MATLAB Computing involves which types of files?
4. MATLAB function to create a matrix of zeros
5. Software for geometry and mesh generation in Computational Fluid Dynamics?
6. MATLAB keyword to define a function

Fill in the blanks

7. is used to perform element-wise division of two matrices in MATLAB.
8. In Excel absolute cell reference is denoted by Symbol.
9. contains the controls and indicators in LabVIEW to create the front panel.
10. Predefined formulas in Excel is known as

II Write short notes on ANY FIVE of the following

(5x2=10)

1. Describe the purpose of the IF function in Excel.
2. How does automation contribute to online food process control?
3. Describe the role of MATLAB in data analysis for food production processes.
4. How do you create a script file in MATLAB?
5. What are the applications of CFD in food processing?
6. How can you implement mathematical scripts in LabVIEW?
7. How can you customize the appearance of a graph in LabVIEW?

III Answer ANY FIVE of the following

(5x4=20)

1. Describe the purpose of a pie chart in data representation. Provide guidelines for creating an effective pie chart in Excel.
2. Explain the key steps involved in setting up a website.
3. What is meant by interactive plotting in MATLAB?
4. What are the different ways to debug a MATLAB code?
5. Explain the significance of the continuity equation in fluid dynamics. Provide an example of its application in the food and beverage industry.
6. How can you create a custom subVI in LabVIEW? Explain the benefits of using subVIs.
7. Explain the purpose of a Case Structure in LabVIEW. Provide an example where a Case Structure would be beneficial.

IV Write an essay on ANY ONE of the following

(1x10=10)

1. Discuss the role of the Analysis ToolPak in Excel for statistical data analysis. Provide a step-by-step solution to a regression analysis problem?
2. Describe MATLAB environment and its key components.
