

Roll No.

Total No. of Pages : 02

Total No. of Questions : 09

B.Tech. (Electrical & Electronics Engineering) (Sem.-7)

AGRIONICS

Subject Code : BTEEE-805B

M.Code : 71970

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

1. Answer briefly :

- a. Give two basic requirements of drippers in drip irrigation system.
- b. Give two functions of deodorizer of vegetable oils.
- c. Define organic herbicide. Name two classes of organic herbicide.
- d. What applications are SCADA (Supervisory Control and Data Acquisition) systems being used for in agriculture?
- e. List different types of alcohol.
- f. What is time based automation?
- g. What is pasteurization? How is it achieved?
- h. Which instrument is used for measuring rainfall and ambient temperature?
- i. Name two types of yeast. State use of each type in food industry.
- j. How many segments are comprised of confectionery industry? Name them.

SECTION-B

2. Explain the procedure for selection and design of lateral in drip irrigation system.
3. Draw a flow chart for preparation of sterilised milk (In-bottle sterilization).
4. Define greenhouse. What are the various conditions required for selection of site for greenhouse?
5. What are the basic characteristics of biosensor?
6. Explain the working of cotton picker with the help of diagram.

SECTION-C

7. What is juicing? How is juicing healthier than just eating the fruits and vegetables? What are the benefits of juicing? What is cold pressed method to extract juice?
8. Explain with the help of flow chart the fermentation process.
9. What is special about the sugar production process from sugarcane? What are the byproducts of sugar industries? What is the problem in storage of sugarcane?

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.