

Roll No.

Total No. of Pages : 02

Total No. of Questions : 09

B.Tech. (Food Technology) (Sem.-6)
STATISTICS FOR FOOD TECHNOLOGISTS

Subject Code : BTFT-320-19

M.Code : 91966

Date of Examination : 05-07-22

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. Write briefly :

- a) Define mean and median
- b) Define standard deviation.
- c) Define regression.
- d) Define errors in research.
- e) What do you mean by central tendency?
- f) Define yate's correlation?
- g) Write the significance of F-test
- h) Define normal distribution
- i) Define binomial and poisson distribution.
- j) Define sample and sampling.

SECTION-B

2. Define paired t-test. What is the significance of paired t-test in research?
3. Briefly explain the simple and double sampling plans for pre-packaged foods.
4. Give an account of 2×2 contingency table.
5. Define errors in research. Explain the various methods to reduce the errors.
6. What do you mean by hypothesis testing? Write a detailed note on techniques of statistical quality controls.

SECTION-C

7. Define normal distribution. Write its significance in research. Write various methods to evaluate normality in detail.
8. Define T-test and Z-test. Write the significance and assumptions student-1 tests and z-test with example.
9. To carry out one factor analysis of variance of the given observations of three different groups of student performance in grades. Find out the mean difference between the groups and state the hypothesis, [alpha level: 0.05 = F= 5.41]

Group A	Group B	Group C
4	3	3
2	4	4
4	3	5

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.