

Roll No.

Total No. of Pages : 03

Total No. of Questions : 10

MBA (Sem.-2)
BUSINESS ANALYTICS FOR DECISION MAKING

Subject Code : MBA/201/18

M.Code : 76153

Date of Examination: 14-05-2024

Time : 3 Hrs.

Max. Marks : 60

INSTRUCTIONS TO CANDIDATES :

1. SECTION-A contains EIGHT questions carrying TWO marks each and students has to attempt ALL questions.
2. SECTION-B consists of FOUR Subsections : Units-I, II, III & IV. Each Subsection contains TWO questions each carrying EIGHT marks each and student has to attempt any ONE question from each Subsection.
3. SECTION-C is COMPULSORY and consists of ONE Case Study carrying TWELVE marks.

SECTION-A

1. Answer the following questions in 2-3 lines :

- a. What is meant by Inferential Statistics?
- b. What are the different types of classification?
- c. What is the null hypothesis?
- d. What is a Type-1 error?
- e. What is Multiple Regression?
- f. What is Auto Correlation?
- g. What are Index numbers?
- h. What are linear equations?

SECTION-B

UNIT-I

2. Discuss the need and applications of inferential statistics in business. Explain by citing examples.
3. **Write notes on :**
 - a) Applications and limitations of probability methods of sampling.
 - b) Relationship between sample size and errors.

UNIT-II

4. Discuss the need and relevance of the hypothesis in statistical analysis. Explain by citing examples.
5. **Write notes on :**
 - a) Applications of F-test
 - b) Applications of ANOVA

UNIT-III

6. Discuss the role and applications of forecasting in business. Explain by citing examples.
7. **Write notes on :**
 - a) Assumptions of regression
 - b) Methods of forecasting

UNIT-IV

8. Discuss the importance of Index numbers in managerial decision-making. Explain by citing examples
9. **Write notes on :**
 - a) Test of consistency in index numbers
 - b) Least square method

SECTION-C

10. The three samples below have been obtained from normal populations with equal variances. Test the hypothesis that the sample means are equal

8	7	12
10	5	9
7	10	13
14	9	12
11	9	14

The table values of F at 5 % level of significance for Degrees of freedom₁ = 2, Degrees of freedom₂ = 12 is 3.88

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