

**M.B.A. (GEN.) (2012 Course) / M.B.A. (HR) (2012 Course) / M.B.A. (IT) (2012 COURSE) Semester - I / M.B.A. (FM) Semester - I (2013 COURSE)(CHOICE BASED CREDIT SYSTEM) : SUMMER - 2019**  
**SUBJECT: STATISTICAL AND MATHEMATICAL TECHNIQUES**

Day: Monday  
Date: 22/04/2019

**S-2019-2239**

Time: 10.00 AM TO 01.00 PM  
Max. Marks: 100

**N.B.:**

- 1) Attempt any **FOUR** questions from Section –I and any **TWO** questions from Section-II.
- 2) Figures to the right indicate **FULL** marks.
- 3) Answers to both the sections should be written in **SAME** answer book.
- 4) Use of non-programmable **CALCULATOR** is allowed.

**SECTION-I**

- Q.1** Write a detailed note on measures of Dispersion. (15)
- Q.2** Discuss primary and secondary sources of data by citing examples. (15)
- Q.3** What do you mean by correlation? Discuss methods of studying correlation. (15)
- Q.4** Discuss different forecasting methods with suitable examples. (15)
- Q.5** Write short notes on any **THREE** of the following: (15)
- a) Baye's theorem
  - b) Steps in decision theory approach
  - c) Presentation and tabulation of statistical data
  - d) Coefficient of determination

**SECTION-II**

- Q.6** Discuss types of decision making environment with suitable examples. (20)
- Q.7** Four cards are drawn at random from a pack of 52 cards. Find the probability that: (20)
- i) They are a king, a queen, a jack and an ace.
  - ii) Two are kings and two are aces.
  - iii) All are diamonds
  - iv) Two are red and two are black.
- Q.8** The frequency distribution of weight in grams of mangoes of a given variety is given below. Calculate the arithmetic mean and the median. (20)

Weight in grams:	410-419	420-429	430-439	440-449	450-459	460-469	470-479
Number of mangoes:	14	20	42	54	45	18	7

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