

Question Paper

Exam Date & Time: 06-Aug-2022 (10:00 AM - 12:00 PM)



MANIPAL ACADEMY OF HIGHER EDUCATION

SIXTH SEMESTER B.Sc. ESS/B.Sc. MLT/ B.Sc. MRT/ B.Sc. MIT / B.Sc. RRT & DT/ EIGHTH SEMESTER BPT/BOT
DEGREE EXAMINATION - AUGUST 2022

SUBJECT: STAT 402 - BIOSTATISTICS & RESEARCH METHODOLOGY /BASIC BIOSTATISTICS & RESEARCH
METHODOLOGY/BIOSTATISTICS
(2016 SCHEME/2016 RV SCHEME)

Marks: 50

Duration: 120 mins.

1. Write short notes on the following:

- 1A) Measures of Morbidity. (5)
1B) Cross-sectional study. (5)

Answer all the questions.

- 2) Explain the characteristics of statistical data. (5)
3) Differentiate between qualitative and quantitative variables with appropriate examples. (5)

4. Following data represents the duration (in days) of chicken pox disease in 9 patients.

14 15 14 16 17 13 15 12 14

Calculate the values of:

- 4A) Sample mean (2)
4B) Mode (1)
4C) Range (1)
4D) 50th percentile (2)
4E) Interquartile range (4)

5) The following are the arterial activated partial thromboplastin time values recorded from a group of 9 patients. (5)

20.7 23.2 29.6 34.4 56.2 30.1 21.3 21.8 35.2

Obtain the values of coefficient of variation.

- 6) 'Correlation does not imply causation'. Explain this statement with an example. (5)
7) "Slope gives the change in independent variable for one unit increase in the dependent variable", Is this statement true? Justify your answer with an explanation. (2)
8) Briefly describe the steps involved in the process of research. (8)

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