

CDOE
BACHELOR OF BUSINESS ADMINISTRATION (2006 COURSE)
B.B.A. Sem-III : WINTER :- 2021
SUBJECT: BUSINESS STATISTICS-II

Day : Wednesday
Date 16-02-2022

W-3418-2021

Time : 10:00 AM-01:00 PM
Max. Marks: 80

N.B.

- 1) Attempt **ANY THREE** 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 **SEPARATE** answer books.
- 4) Use of Non-programmable calculator is allowed.

SECTION-I

- Q.1** What do you mean by Hypothesis? Explain procedure of Testing of Hypothesis. (16)
- Q.2** Attributes A and B represent respectively regular morning walk activity and being physically fit. Compute the Yule's coefficient of association between attributes A and B. Given:
 $N=100$, $(A)=60$, $(B)=50$ and $(AB)=35$
Interpret the result. (16)
- Q.3** What is Normal Distribution? Explain different properties of Normal Distribution. (16)
- Q.4** Explain the meaning of conditional probability of an event. Discuss the addition and multiplication rules of probability giving one example of each rule. (16)
- Q.5** Write short notes on **ANY TWO** of the following : (16)
- a) Types of correlation
 - b) Chi-square test
 - c) Permutations and combinations
 - d) Poisson Distribution

SECTION-II

- Q.6** From the following data, obtain the two regression equations: (16)
- | | | | | | | | | | | |
|-----------|----|----|-----|-----|----|-----|----|----|-----|----|
| Sales | 91 | 97 | 108 | 121 | 67 | 124 | 51 | 73 | 111 | 57 |
| Purchases | 71 | 75 | 69 | 97 | 70 | 91 | 39 | 61 | 80 | 47 |
- Q.7** What is Time Series? Explain the importance and different components of a Time Series. (16)
- Q.8** In a bolt factory, machines A, B, C, manufacture respectively 25%, 35% and 40% of the total. Of their output 5, 4, 2 percent are known to be defective bolts. A bolt is drawn at random from the total output and is found to be defective, what are the probabilities that it was manufactured by (16)
- a) Machine A
 - b) Machine B or C.

* * * * *