

**CDOE**  
**BACHELOR OF COMPUTER APPLICATIONS**  
**B.C.A. Sem-IV : WINTER :- 2021**  
**SUBJECT: COMPUTER ORIENTED STATISTICAL METHODS**

**Day : Tuesday**  
**Date 22-02-2022**

**W-5338-2021**

**Time : 02:00 PM-05:00 PM**  
**Max. Marks: 80**

- 1) Attempt **ANY FIVE** questions from Section-I and attempt **ANY TWO** from Section-II.
- 2) Figures to the right indicate **FULL** marks.
- 3) Answers to both the sections should be written in the **SEPARATE** answer books.
- 4) Use of non-programmable **CALCULATOR** is allowed.

**SECTION-I**

**Q.1** Explain the importance of statistics with respect to I.T. industry. **(10)**

**Q.2** Distinguish between: **(10)**  
i) Primary Data and Secondary Data.  
ii) Sampling and Census method.

**Q.3** Represent the following data by means of a histogram. **(10)**

Weekly wages	10-15	15-20	20-25	25-30	30-40	40-60	60-80
No. of workers	7	19	27	15	12	12	8

**Q.4** Calculate mean deviation from the median for the following data **(10)**

Marks less than	80	70	60	50	40	30	20	10
No. of students	100	90	80	60	32	20	13	5

**Q.5** Calculate Karl person's coefficient of skewness from the following data. **(10)**

Size	1	2	3	4	5	6	7
Frequency	10	18	30	25	12	3	2

**Q.6** Define median and discuss its relative merits and demerits. **(10)**

**Q.7** Write short notes on **ANY TWO** of the following: **(10)**

- a) Types of correlation method
- b) Component of Time series
- c) Mean absolute Deviation

**P.T.O.**

## SECTION-II

**Q.8** From the following data, obtain the two regression equations: **(15)**

Sales	91	97	108	121	67	124	51	73	111	57
Purchas	71	75	69	97	70	91	39	61	80	47

**Q.9** The sales of a company in million of rupees for the year 1994-2001 are given. **(15)**

Year	1994	1995	1996	1997	1998	1999	2000	2001
Sales	550	560	555	585	540	525	545	585

- i) Find the linear trend equation.
- ii) Estimate the sales for the year 1993.

**Q.10** Find the value of mean, mode and median from the data given below: **(15)**

Weight	93-97	98-102	103-107	108-112	113-117	118-122	123-127	128-132
No. of students	3	5	12	17	14	6	3	1

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