D 53024 **(Pages : 3)** **Name.....**

Reg. No.....

THIRD SEMESTER B.VOC. DEGREE EXAMINATION
NOVEMBER 2023

Logistics Management

SDC 3LM 12—BUSINESS STATISTICS

(2021 Admissions)

Time : Two Hours Maximum : 60 Marks

Section A

Answer the following questions.
Each question carries 2 marks.

1. Define Statistics.
2. What is the importance of statistics in industry ?
3. What do you mean by collection of data ?
4. What are the essentials of an ideal classification of data ?
5. Which are the types of frequency distributions ?
6. What do you mean by measures of central tendency ?
7. What are the essentials of an ideal average. ?
8. What do you mean by dispersion ?
9. What are the advantages of median ?
10. What is Correlation ?
11. What is a regression line ?
12. What is a time series ?

(Ceiling = 20 marks)

Turn over

Section B

Answer the following questions.
Each question carries 5 *marks.*

13. What are the limitations of statistics ?

14. Which are the different kinds of tables ?

15. Compute the arithmetic mean of the following frequency distribution

Mark	:	20–29	30–39	40–49	50–59	60–69	70–79
Number of students	:	5	11	18	22	16	8

16. Find the median of the following :

x	:	1	2	3	4	5	6
y	:	7	12	17	19	21	24

17. Following are the marks in Maths and English :

	Maths (x)	English (y)
Mean	40	50
Standard Deviation	10	16
Coefficient of correlation	0.5	

Find Regression Equation of X on Y

18. Which are the types of correlation ?

19. Calculate 4 yearly moving average of the following data :

Year	:	2005	2006	2007	2008	2009	2010	2011	2012
Wages	:	1150	1250	1320	1400	1300	1320	1500	1700

(Ceiling = 30 marks)

Section C

Answer any **one** *of the following.*
Each question carries 10 *marks.*

20. Compute mode of the following distribution :

Marks	No. of Students
10–20	5
20–30	8
30–40	12
40–50	16
50–60	10
60–70	8

21. Find correlation between age of husband and age of wife.

Age of Husband (x)	:	46	54	56	56	58	60	62
Age of Wife (y)	:	36	40	44	54	42	58	54

(1 × 10 = 10 marks)