# B.VOC DEGREE REGULAR / IMPROVEMENT / REAPPEARANCE EXAMINATIONS, FEBRUARY 2025

## Fourth Semester

B.Voc Business Accounting and Taxation

## TBOC403 - STATISTICS FOR ANALYSIS

2018 Admission Onwards

5F0A39CD

Time: 3 Hours

Max. Marks : 80

### Part A

*Answer any **ten** questions.*

*Each question carries **2** marks.*

1. Distinguish between a sample and a population.

2. Briefly explain the functions of statistics.

3. Briefly explain the significance of Graph and Diagram.

4. What is a cumulative frequency curve?

5. Mean marks obtained by 100 students was found to be 40. Later it was noted that one value was read as 83 instead of 53. Find the correct mean.

6. What is measure of central tendency?

7. What are the uses of an average?

8. What is financial analysis?

9. Narrate the importance of financial statement analysis.

10. Meaning of Ratio.

11. How to decide the period of moving average?

12. Discuss method od least square.

(10×2=20)

### Part B

*Answer any **six** questions.*

*Each question carries **5** marks.*

13. Explain the concept distrust of statistics.

14. Explain the importance of Statistics in the field of Business and Industry.

15. Draw frequency polygon to the following frequency distribution

    Marks 10-20 20-30 30-40 40-50 50-60 60-70

    No of students 5 8 15 20 12 7

16. Explain the uses and importance of Graph.

17. Following data gives the information relating to milk production of Hanna farm. Find the mean deviation about the mean for the data 6,7,10,12,13,4,8,12.

18. The marks obtained by 40 students out of 50 in a class are given below in the table.

    Mark :42 36 30 45 50

    Number of students :7 10 13 8 2 Find the mode of the above data.

19. Discuss types of financial statement analysis.

20. Explain the importance of time series analysis.

21. Apply the method of semi averages for determining the trend.

    Year: 1999 2000 2001 2002 2003 2004 2005 2006 2007 2008

    Values: 45 58 62 50 70 72 68 70 78 75

$(6\times5=30)$

## Part C

*Answer any **two** questions.*

*Each question carries **15** marks.*

22. Define statistics. Explain the characteristics of statistics

23. The table below shows the quantity in hundred kgs of wheat, barley and oats produced in a certain form during the years 1991 to 1994.

    Years Wheat Barley Oats 1991 34 18 27 1992 43 14 24 1993 43 16 27 1994 45 13 34

    Construct a percentage component bar chart to illustrate this data.

24. Prepare comparative statements from the following data prepare comparative income statement Particulers 2010 2011 Net sale 785 900 CGS 450 500

    Administrative expense 70 72 Selling expense 80 90 Interest paid 25 30

    Income tax paid 70 80

25. Fit a straight line trend to the following series by least square method

    Year 2001 2002 2003 2004 2005 2006 2007

    Sales 10 13 12 14 12 16 14

    Estimate the most likely estimated production for the year 2009.

$(2\times15=30)$