

1st In-Semester Examination-2019

B.Com 3rd Semester

Subject: Business Statistics

Time: 45 Minutes

Marks: 25

Answer any five questions:

1. Define Primary data and Secondary data. What are the sources of primary data? 2+3=5
2. What is the meaning of frequency distribution? Write the definitions of (i) cumulative frequency distribution (ii) relative frequency distribution & (iii) percentage frequency distribution. 2+1+1+1=5
3. What do you mean by measure of central tendency? Write the requisites of a good measure of central tendency. 2+3=5
4. Prove for any two values $AM \geq GM \geq HM$. When do they become equal? 5
5. The average daily wage of 100 workers in a factory is Rs. 72.00. The average daily wage of 70 male workers is Rs. 75.00. Find the average daily wage of female workers. 1+4=5
6. Mention the various measures of dispersion. Define (a) range, (b) mean deviation and (c) standard deviation. 2+3=5
7. If the mean of the following data is 15.38, find the missing frequency.

Value	10	12	14	16	18	20
Frequency	2	7	?	20	8	5

8. What is the best measure of dispersion and why? 5
9. Find the standard deviation from the following frequency distribution: 5

Weight	44 - 46	46 - 48	48 - 50	50 - 52	52 - 54
Frequency	3	24	27	21	5

10. Define index number. Why index number is called "Economic barometer"? 2+3=5
11. What do you mean by correlation analysis? Give the interpretations when the correlation coefficient takes the values 0, 1 and -1. 2+3=5
12. Calculate the Karl Pearson's correlation coefficient from the following data.

X	46	54	56	56	58	60	62
Y	36	40	44	54	42	58	54

13. Compute the coefficient of correlation from the following results: 5
 $n = 10, \sum x = 125, \sum y = 80, \sum x^2 = 1586, \sum y^2 = 650, \sum xy = 1007.$

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