



**III Semester B.Com. Degree Examination, November/December 2016  
COMMERCE (New) (General)  
Paper – 3.6 : Quantitative Techniques – I**

Time : 3 Hours

Max. Marks : 80

***Instruction : Mathematical, Logarithmic and Graphs are supplied on request.***

**SECTION – A**

Answer **any ten** of the following :

**(10×2=20)**

1. What do you mean by grouped and ungrouped data ?
2. Define statistics as a method.
3. What is frequency distribution ?
4. Name the types of statistical series.
5. What is diagrammatical representation of data ?
6. State any two differences between diagrams and graph.
7. Give the formula of combined mean.
8. What are partition values ?
9. How mode is located graphically ?
10. Give the meaning of homonic mean.
11. Define standard deviation.
12. State any two differences between dispersion and skewness.

**P.T.O.**



SECTION - B

Answer any three of the following :

(3x5=15)

13. What is statistics ? Explain objectives and functions of statistics ?

14. Prepare two way table from the following figures of income as X class interval 200-300, 300-400 and Expenditure as Y class intervals into 10-15, 15-20 so on.

<b>Income :</b>	X :	550	623	310	420	600	225	310	640
<b>Expenditure in %'s.</b>	Y :	12	14	18	16	15	25	26	20
	X :	512	690	680	300	425	555	325	202
	Y :	18	12	13	25	16	15	23	29
	X :	255	492	587	643	689	523	317	284
	Y :	27	18	21	19	11	12	18	17
	X :	400							
	Y :	19							

15. Calculate missing frequency from the following data its Average is 52.

<b>Size :</b>	0-20	20-40	40-60	60-80	80-100
<b>Frequency :</b>	8	?	19	14	9

16. Calculate the positional average for the following data : https://www.vskub.com

<b>Class Interval</b>	: 0-5	5-10	10-20	20-25	25-40	40-35	35-50	50-60	60-80	80-90	90-100	above-100
<b>Frequency :</b>	1	2	5	8	10	10	7	6	5	3	2	3

17. Calculate 3 Quantiles, (Qu3) 5 Octiles (O<sub>5</sub>) and 7 Deciles (D<sub>7</sub>), Percentiles 58 (P<sub>58</sub>)

<b>X :</b>	100-110	110-120	120-130	130-140	140-150	150-160	160-170	170-180
<b>F :</b>	10	18	24	32	26	16	8	6

https://www.vskub.com

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SECTION – C

Answer **any three** of the following :

**(3×15=45)**

18. Explain the importance and differences between diagrams and graphs ?

19. Draw histogram, polygon for the following data and find the value of mode.

**Weights in Lbs :** 90-100 100-110 110-120 120-130 130-140 140-150 150-160 160-170

**No. of Students :** 10 37 65 80 51 35 18 4

20. Calculate mean, median and mode from the following data :

**Marks (Above) :** 0 10 20 30 40 50 60 70 80 90 100

**No. of Students :** 80 77 72 65 55 43 23 16 10 8 0

21. Calculate mean deviation from mean, median, mode and its co-efficient.

**Wages (Less than) :** 80 70 60 50 40 30 20 10

**No. of Workers :** 100 90 80 60 32 20 13 5

22. For the following data calculate Bowley's co-efficient of skewness :

**Age in yrs. :** 20-25 25-30 30-35 35-40 40-45 45-50 50-55 55-60

**Employees :** 50 70 80 180 150 120 70 50

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