No. of Printed Pages : 3

GS-537

II Semester B.B.M. Examination, May/June - 2019
BUSINESS MANAGEMENT
2.4 : Quantitive Methods for Business - II
(Repeaters) (2012-13 & Onwards)

Time : 3 Hours

Max. Marks : 100

Instructions : *Answer should be written in English only.*

SECTION - A

Answer **any eight** sub-questions from the section. **Each** sub-question carries **2 marks.**

8x2=16

1. (a) What is statistics ?
   (b) What is Median ?
   (c) If Mean = 12, Mode = 13, find median.
   (d) Find the Range and co-efficient of Range from the following data. 42,47,54,64,72,94,96,45
   (e) State any two uses of Range.
   (f) Find CV, if $\sigma = 12$ and $\overline{X} = 30$
   (g) State the two types of ogives.
   (h) What is consumer price index number ?
   (i) State the types of correlation.
   (j) What is Histogram ?

SECTION - B

Answer **any three** of the following questions. Each question carries **8 marks**

2. Calculate the standard Deviation from the following data.   3x8=24

Wages (in ₹)	10-20	20-30	30-40	40-50	50-60	60-70
No of workers	2	4	8	10	12	4

3. Calculate Mean Deviation from Mean from the following data.

Wages (in ₹)	0-10	10-20	20-30	30-40	40-50	50-60	60-70	70-80
No of workers	5	8	7	12	28	20	10	10

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4. Calculate spearman's coefficient of Rank correlation for the following data.

X	53	98	95	81	75	61	59	55
Y	47	25	32	37	30	40	39	45

5. Obtain the regression equations from the following.

	X Series	Y Series
Mean	20	25
Standard Deviation	2	3

Coefficient of correlation $= 0.75$

SECTION - C

Answer question no. **10** and **any three** of the remaining questions.Each question carries **15 marks.** https://www.onlinebu.com   **4x15=60**

6. Calculate Mean and Median for the following data.

Variable	0-10	10-20	20-30	30-40	40-50	50-60	60-70	70-80	80-90	90-100
Frequency	2	1	6	8	9	12	8	8	4	2

7. Find out Karl pearson's coefficient of correlation from the following data of marks obtained by ten students in a calss test.

Marks in Economics	Marks in Accountancy
45	35
70	90
65	70
30	40
90	95
40	40
50	60
75	80
85	80
60	50

8. Draw two ogives from the following and locate the median.

Marks	20-40	40-60	60-80	80-100	100-120	120-140	140-160
No. Of students	4	10	10	16	12	7	3

9. Calculate Fisher's ideal index number for the following and verify both the tests.

Commodity	Base Year		Current Year	
	Price	Quantity	Price	Quantity
A	10	49	12	50
B	12	25	15	20
C	18	10	20	12
D	20	5	40	2
E	22	8	45	5

Compulsory :
10. What is correlation ? Explain various types of correlation.

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