No. of Printed Pages: 08

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# Int. LL.B Examination 2016-2017

(Third Semester)

### BUSINESS STATISTICS

Time: 3 Hours]

[Maximum Marks: 60

**Note:** Attempt all the questions.

# 19 Janio Mario of SECTION-A

1. Attempt all parts of following:

 $8 \times 1 = 8$ 

- (a) The words 'statistics' is derived from the Latin word.......
  - (b) In singular sense statistics means.....
  - (c) Find the mode of the number:

(1-3× 3, 5, 8, 6, 3, 4, 3, 9 o zhaq mor via iginshi A

(d) Calculate coefficient of range from the following data.

Income (in Rs. )	No. of worker
100-120	40
120-140	60
140-160	80 BO
160-180	50
180-200	20

- (e) If the regression coefficient are 0.9 and 0.4? What would be the value of coefficient of correlation.
- (f) What is the range of the coefficient of correlation?
- (g) If  $Q_1$ =41,  $Q_3$ =49 find out the value of coefficient of Q.D.
- (h) Write the formula for Bowley's coefficient of Skewness.

# SECTION - B om only only (a)

2. Attempt any two parts of following:  $2 \times 6 = 12$ 

- (a) Explain the meaning of Statistics.
- (b) From the prices of shares of A company and B company given below, state which is more stable in value:

	4.0
A Company	B Company
55	108
54 out Mode.	107
52	105
53	105
56,0-30	106
rly between Skewness and 04-0 86	107
52 0 30 3 - KOITO	104
50	103
s. Aftendpl sity two parts from 51 capallage miniors (-5)×8=40	104
49	101 (a) S

5

Fit a straight line trend by the method of least squares to the following data:

Year	Production in 000 Quintel.
2006	80
2007	90
2008	92
2009	83
2010	94 9 and 0 4
2011	99
2012	an se of the 92 efficient of

Distinguish clearly between Skewness and Kurtosis.

#### SECTION - C

Note:- Attempt all questions. Attempt any two parts from  $5 \times 8 = 40$ each questions.

(a) Find out Mean, Median of the following series:

Class Interval	Frequency
0-5	moit 5 No Ovanity
5-10	-9 M
10-15	16-0
15-20	25
20-25	2071)
25-30	10 €

Find out Mode from the following data:

Wages Rs.	No. of Employees
(c) C 0-10 to the coeff	6 201
10-20	Incentification of the second
20-30	10
30-40	16
40-50	1200
50-60	30-8
60-70	(c) Whât'r Skewn

Explain application of statistics in mangerial decision making. following information:

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4. (a) Compute Standard Deviation and Coefficient of Variation.

Marks	No. of students
0-10	10-1518 6
10-20	15-20 01
20-30	20-25 02
30-40	25-30 9
1010 gr 40-50 sit hori	(b) Find out 2 lode

(b) From of following distribution calculate Kurtosis:

Income (Rs.)	Frequency
0-10	06105
10-20	04308
20-30	40450
30-40	00202

- (c) What is Skewness? Explain Karl Pearson's measures of Skewness.
- 5. (a) Calculate Fisher Ideal Index Number from the following information:

Base Year			Current Year		
Item	Price	Quanity		Price	Quanity
noise A	2	4 sb gnis	ollet s	6	5
В	4	5		8 oni	4
С	6	2		9 X	3
D	8 2	1		6	2
E	10	1		5	2

- (b) How do index numbers help in economic analysis?
- (c) Calculate the coefficient of correlation between exports and imports:

· · · · · · · · · · · · · · · · · · ·	Export	Cheminal Control	Inports
are the	42	is time series an	56
		nents oftimer	
	58	363646	53
	55		58
	89		65

98	76
у 118110 66	ttem 85ce Ouanit

6. (a) From the following data obtain the regression line:

	3	X	S Yo	
ı	2	6 80	1- 98 O	
		2	E 111 9	
		umbers heli 01 e	(h) Voice do index.	
			disminate 8 scale day	
		Defficient of 8th	(c) $\int_{-\infty}^{\infty} u date the c$	

- (b) What do you mean by regression? Explain its utility.
- (c) What is time series analysis? What are the components of time series?

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