Roll No. ....

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### **BBA/M-20**

10512

#### **Business Statistics-II**

Paper - BBA-210

Time allowed : 3 Hours

Maximum Marks : 80

Note: Attempt five question in all. Q.No. 1 is compulsory

### **Compulsory Question**

1. Explain the followings :

2×8=16

- (i) Meaning of correlation
- (ii) Knexplained variance

(iii) Mathematical probability

- (iv) Complementary events
- (v) Random variation

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- (vi) Moving average
- (vii) Meaning of dependent samples
- (viii) Excel functions for mean and standard deviation.
- Compute correlation between number of schooling years 'S' and wages 'W' from following data and explain its meaning: 16

3. (i) Explain the difference between correlation & regression analysis. 8

(ii) Show that 
$$r = \sqrt{b_{yx} \cdot b_{xy}}$$
 8  
where  $y = a_1 + b_{yx}x$  and  $x = a_1 + b_{yy}y$   
What will be the sign of "r"?  
 $\overline{b_{yx} \cdot b_{xy}}$ 

$$y = a_1 + b_1 x$$
 and

 $\mathbf{2}$ 

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 $\mathbf{2}$ 

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Do you observe the presence of trend in this data?

7. Study the following results and determine whether both samples belong to same population? 16

# D;\

(i)

Sample I	Sample II
$N_1 = 25$	N <sub>2</sub> = 29
$X_1 = 15.6$	$X_2 = 14.9$
$\sigma_1 = 28$	$\sigma_2 = 31$

- Discuss the steps involved in MS-Excel to compute 8. the followings for two variables X and Y 16
  - moaded from C Regression coefficients b and b. (ii)
  - $\hat{y} = \hat{a} + \hat{h} X$ (iii) Estimated
  - (iv) Scatter diagram between Y and X and fitted line for y = a + h XΛ Y

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