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Reg. No. :

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B.B.A. (CBCS) DEGREE EXAMINATION,
NOVEMBER 2011.

First Semester

Business Administration — Main

Paper II — BUSINESS STATISTICS

(For those who joined in July 2008 onwards)

Time : Three hours

Maximum : 75 marks

PART A — (10 × 1 = 10 marks)

Answer ALL questions.

Choose the correct answer :

1. Statistics deals with _____.
 - (a) Quantitative value
 - (b) Single value
 - (c) Different value
 - (d) All

2. The data collected by questionnaire are _____.
 - (a) primary data
 - (b) secondary data
 - (c) published data
 - (d) group data

3. Histograms are _____.
 - (a) One dimensional
 - (b) Two dimensional
 - (c) Three dimensional
 - (d) None

4. The measure of central tendency affected most by the extreme value is _____.
 - (a) Harmonic mean
 - (b) Geometric mean
 - (c) Median
 - (d) Arithmetic mean

5. The coefficient of variation gives _____.
 - (a) absolute deviation
 - (b) percentage variation
 - (c) seasonal variation
 - (d) cyclical variation

6. Range of 8, 12, 15 and 10 is _____.
(a) 2
(b) 5
(c) 10
(d) none of them
7. If one of the regression coefficient is negative, the other _____.
(a) must be negative
(b) must be positive
(c) may be positive or negative
(d) none of them
8. The nature of correlation between two variables is known from _____.
(a) Bar diagram
(b) Pie diagram
(c) Pictrogram
(d) Scatter diagram
9. Seasonal variations recur at an interval of _____.
(a) 7 years
(b) 5 years
(c) 1 year
(d) none of them

10. Cyclical fluctuations are caused by _____.
(a) Flood (b) War
(c) Strike (d) None of them

PART B — (5 × 5 = 25 marks)

Answer ALL questions, choosing either (a) or (b).

11. (a) What are the demerits of secondary data?

Or

- (b) What is bar diagram?

12. (a) What is frequency polygon?

Or

- (b) What are the essentials of tabulation?

13. (a) Calculate the mean deviation about the mean for the following data :

X : 5 15 25 35 45 55 65

F : 8 12 10 8 3 2 7

Or

- (b) For the data given below, calculate standard deviation :

40, 50, 60, 70, 80, 90, 100.

14. (a) Define regression and differentiate it from correlation.

Or

- (b) What is the use of two regression lines?

15. (a) What is the business forecasting?

Or

- (b) What are the uses of business forecasting?

PART C — ($5 \times 8 = 40$ marks)

Answer ALL questions, choosing either (a) or (b).

16. (a) Distinguish between primary and secondary data. State relative merits and demerits.

Or

- (b) What are the sources of secondary data? What are the precautions to be taken while using secondary data?

17. (a) Draw the histogram and frequency polygon on the basis of the following data :

Mid value : 18 25 32 39 46 53 60

Frequency : 10 15 32 42 26 12 9

Or

- (b) Draw the histogram :

Class : 0-20 20-50 50-100 100-150 150-170

Frequency : 6 15 24 16 4

18. (a) Calculate all the three mean deviations and the corresponding coefficient of mean deviation :

Age years : 21 25 27 32 41 46 50 55

No. of workers : 2 3 10 20 15 10 8 2

Or

- (b) Calculate the mean deviation about mode and the corresponding coefficient :

Central value : 10 30 50 70 90

Frequency : 25 60 100 75 40

19. (a) Calculate the coefficient of correlation by the method of concurrent deviations :

X: 23 28 32 33 40 38 37 40 45

Y: 51 60 59 62 65 61 69 68 60

Or

- (b) Obtain the equation of the two lines of regression for the data given below :

X: 1 2 3 4 5 6 7 8 9

Y: 9 8 10 12 11 13 14 16 15

20. (a) Compute Fisher's ideal price and quantity index numbers for the current year on the basis of the following data :

Item	Base year		Current year	
	Price (Rs.)	Total	Price (Rs.)	Total
A	6	300	10	560
B	2	200	2	240
C	4	240	6	360
D	10	300	12	288
E	8	320	12	432

Or

- (b) Construct the cost living index number from the following group data :

Group	Weight	Group index number
Food	47	247
Fuel and lighting	7	293
Clothing	8	289
House rent	13	100
Miscellaneous	14	236