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## I Semester B.A./B.Sc./B.Com./B.B.A./B.B.A.T.T.M./B.B.M./B.C.A./B.S.W./ B.A. Afsal-Ul-Ulama Degree (CCSS – Regular/Supple./Improvement) Examination, November 2013

## BBA / BBA TTM - COMPLEMENTARY COURSE 1C01 BBA / BBA (T) : Business Statistics

Time: 3 Hours Max. Weightage: 30

## PART-A

This Part consists of **two** bunches carrying **equal** weight of **one**. **Each** bunch consist of **four** objective type questions.

Answer all questions.

1)	Wh	nich of the following is t	he most suitable average?			
	a)	Mode	b) Median			
	c)	Geometric mean	d) Harmonic mean			
2)		is a circle of radius neither too large nor too small whose area is divided into as many different sectors as these are components of the whole data.				
	a)	Pie-diagram	b) Bar-diagram			
	c)	Square diagram	d) Rectangular diagram			
3)	3) is a set of vertical bars whose areas are proportional to frequencies represented					
	a)	Frequency polygon				
	b) Smoothed frequency bars					
	c)	Ogive				
	d)	Histogram				

4)	4) A man travelled from one place to another at the rate of 20 k.m. per hour and returned at the rate of 30 k.m. per hour. The average speed in the whole journey is								
	a) 25 km/hr	b)	24 km/hr						
	c) 30 km/hr	d)	20 km/hr		(W=1)				
11. 5)	5) The mode of 3, 4, 5, 2, 3, 4, 1, 6, 4 is								
	a) 6 b)	4	c) 3.6	d) 2					
6)	The relationship between N (S.D.) is	/lean	Deviation (M.D.) and St	andard Deviation					
	a) 3 M.D. = 2 S.D.	b)	6 M.D. = 5 S.D.						
	c) 5 M.D. = 4 S.D.	d)	M.D. = S. D.						
7)	The sales of wool and umbrella are associated with component of time series.								
	a) Secular trend	b)	Seasonal variation						
	c) Irregular variation	d)	None of these						
8)	If the correlation between to coefficient of X on Y is	wo va	riables X and Y is negati	ve then the regres	sion				
	a) Positive	b)	Negative						
	c) Not certain	d)	None of the above		(W = 1)				
			PART-B						
				w ambulos					

Answer any 8 questions in one or two sentences each. Each question carries a weightage of one.

- 9. What is meant by population in statistics?
- 10. What is Secondary Data?
- 11. State the meaning of frequency distribution.
- 12. What is 'Open-end' class?
- 13. Define Ogive.
- 14. Define Median.

- 15. What is variance?
- 16. What is Lorenz curve?
- 17. Define Kurtosis.
- 18. What is meant by Linear correlation?

 $(W = 8 \times 1 = 8)$ 

## PART-C

Answer any six questions. Answer not to exceed one page. Each question carries a weightage of two.

- 19. Discuss any four methods of collecting primary data.
- 20. Define tabulation. What are its advantages?
- 21. Distinguish between correlation and regression.
- 22. List the merits and demerits of Least Square Method.
- 23. The following frequency distribution gives the height (in inches) of 100 students selected at random from a college of 3000 students:

Class interval: 60-62 62-64 64-66 66-68 68-70 70-72

No. of Students: 5 18 42 20 8 7

Calculate standard deviation.

- 24. Given below the arithmetic mean, the median, and the standard deviation of two distributions. Determine which distribution is more skewed.
  - 1) A. M.= 22; Median = 24; S.D. = 10
  - 2) A.M. = 22; Median = 25; S.D. = 12
- 25. The following are the marks obtained by 12 students in Accountancy and Business Statistics.

Accountancy: 50 54 56 59 60 62 61 65 67 71 71 74

Statistics: 22 25 34 28 26 30 32 30 28 34 36 40

Obtain Karl Pearson's co-efficient of correlation.



26. The following is the distribution of wages of workers:

Wages (Rs.): 0-10 10-20 20-30 30-40 40-50 50-60 60-70 70-80

No. of workers: 20 45 85 160 70 55 35 30

Determine:

a) The percentage of workers getting wages more than Rs. 44.

b) The percentage of workers getting wages between Rs. 22 and 58. (W= 6×2=12)

PART-D

Answer any two questions. Each question carries a weightage of 4.

27. Define Statistics. Explain its functions. Also state its limitations.

28. Obtain the lines of regression for the following data:

x: 120 90 80 150

y: 40 36 40 44

29. From the following data find the trend values of 5 yearly moving averages.

Year: 2000 2001 2002 2003 2004 2005 2006 2007 2008

Sales: 36 43 43 34 44 54 34 24 14 (W=2×4=8)