Time: Three Hours

8. Median is a ——

platykurtic.

---- average.

III. State whether the following statements are True or False:-

Reg. No	Reg.	No
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Maximum Weight: 25

MI	-			
Nam	Casses	 	 	e

B.Com. DEGREE (CBCSS) EXAMINATION, NOVEMBER 2010

First Semester

Core Course I—BUSINESS STATISTICS

(Common for Model I, Model II and U.G.C. Sponsored B.Com. Programmes)

				Section	n A
				wer all qu question	uestions. as carries a weight of 1.
	I.	Choose	e the correct answer from the ch	oices giv	en:
	1.	The su	m of squared deviations from a	rithmetic	e mean is:
		(a)	Alaways zero.	(b)	Greater than zero.
		(c)	Less than zero.	(d)	Always minimum.
	2.	To mea	asure Intelligence Quotient, we	should u	se:
		(a)	Mean.	(b)	Quartile.
		(c)	Mode.	(d)	Median.
	3.	The un	weighted price index gives more	e importa	ance to items having:
		(a)	More price.	(b)	Less Price.
		(c)	Changing price.	(d)	Stationary price.
	4.	The tre	end in linear if:		experimentario en la como de deservicio de la como de l
		(a)	the growth is geometrical.	(b)	growth rate is constant.
		(c)	growth is not constant.	(d)	rate of growth is positive.
	П.	Fill in	the blanks:		Supervision of All States and College
	5.	The dif	ference between the values of ex	xtreme it	tems of a series is called ———.
	6.	The cor	nsecutive addition of frequencies	s is called	d ———.
19	7.	There a	are ——— quartiles in a ser	ries.	

9. If the concentration in the centre of a distribution is comparatively less, the curve becomes

- 10. Bowley's coefficient of Skewness is also known as fourth measure of skewness.
- 11. Standard deviation is an absolute measure of dispersion.
- 12. Mode is not affected by the values of extreme items.
- IV. Match the following:-
- 13. Statistic
- 14. Lack of symmetry
- 15. Kurtosis
- 16. Commercial average

- (a) Bulginess.
- (b) Moving Average.
- (c) Sample.
- (d) Index numbers.
- (e) Harmonic mean.
- (f) Skewness.
- (g) Geometric mean.

 $(4 \times 1 = 4 \text{ weight})$

Section B

Answer any **five** questions. Each question carries a weight of 1.

- 17. What do you mean by circular text?
- 18. What is coefficient of range?
- 19. What is the Geometric mean of 2, 4, 8?
- 20. How is Geometric mean calculated?
- 21. An acroplane flies along the four sides of a square at varying speeds of 200, 400, 600, 800 miles per hour respectively. What is the average speed of the plane in its flight around the square?
- 22. What is Skewness?
- 23. Mean = 45, median = 48 and coefficient of skewness = -0.5. Find out the standard deviation.
- 24. What do you mean by time-series?

 $(5 \times 1 = 5 \text{ weight})$

Section C

Answer any **four** questions. Each question carries a weight of 2.

- 25. Why is artihmetic mean considered to be the best average?
- 26. Find Geometric mean from the following data:-

Daily Income ... 0-20 20-40 40-60 60-80 80-100

No. of Workers ... 5 7 12 8 4

- 27. Explain the utility of consumer price indices.
- 28. Calculate the first four central moments for the values given below:

1, 3, 7, 9, 10.

- 29. For a set of 7 observtions, mean = 60. Sum of squared deviation from mean is 184. Find the coefficient of variation.
- 30. Calculate the cost of living index number:

Group	I	ndex number	Weights
Food		350	10
Fuel		150	2
Cloting		200	2
Rent		150	. 2
Miscellaneous		225	4

 $(4 \times 2 = 8 \text{ weight})$

Section D

Answer any **two** questions. Each question carries a weight of 4.

31. From the following data calculate Laspeyre's, Paasche's and Fisher's Index numbers :—

Items		Base	Year	Current Year			
		Price (Rs.)	Quantity	Price $(Rs.)$	Quantity		
A		6	50	10	56		
В		2	100	2	120		
C		4	60	6	60		
D		10	30	12	24		
E		8	40	12	36		

32. From the following data, fit a straight line trend, and find out the trend values for all the years:

Year	 2001	2002	2003	2004	2005	2006	2007
Value	 60	72	75	65	80	85	95

33. The scores of two batsmen X and Y in six innings during a cricket match are as follows:

Batsman X	 10	12	80	70	60	100	0	4
Batsman Y	. 8	9	7	10	5	9	10	8

Examine which of the two batsmen is more consistent in scoring.

 $(2 \times 4 = 8 \text{ weight})$