# 16U309

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### **THIRD SEMESTER B.Com/BBA DEGREE**

(Regular/Supplementary (CUCBCSS-CC15U GN3 A11(2) - BASIC N (General Cou (2015 Admission

Time: Three Hours

#### Part A

Answer *all* questions. Each question carries 1 mark.

- 1. \_\_\_\_\_refers to the values of a variable chronologically ordered over a successive period of time.
- 2. In \_\_\_\_\_ index numbers we use price as weights.
- 3. When the sum tends to a finite quantity, the series is said to be \_\_\_\_\_.
- 4. A matrix in which every element is zero is
- 5. Lorenz curve is used to study in a series.
- 6.  $X^2 4 = 0$  implies x =\_\_\_\_\_.
- 7. Find the 7<sup>th</sup> term of series 1, 4, 7,\_\_,\_.
- 8. \_\_\_\_\_ is filled by the enumerator himself.
- 9. Classes with zero frequencies are called \_\_\_\_.
- 10. A simultaneous equation means a set of equations in \_\_\_\_\_ unknowns.

## Part B

Answer any eight of the following. Each question carries 2 marks.

- 11. Explain Singleton set?
- 12. Index numbers are Economic Barometers. Explain.
- 13. Compute G.M of the following Figures : 57.5, 87.75, 53.5, 73.5, 81.75

14. Solve:  $2x^2 + 8x + 8 = 0$ .

- 15. What do you mean by Skewness?
- 16. What is a Pictogram?
- 17. Find an infinite G.P whose second term is 2/9 and the sum to infinity is 1.
- 18. Find the number of years a sum of Rs. 5000 will take to become 9000 if the rate of interest is 8%.
- 19. Find Mode from the following values: 12,35,15,40,55,21,60,45.
- 20. What are the merits of Standard Deviation?

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	Maximum: 80 Marks

## (10x1=10 Marks)

(8x2=16 Marks) **Turn Over** 

#### Part C

Answer *any six* of the following. Each question carries 4 marks.

21. Obtain the Quartile Measure of Dispersion and its Coefficient for the data given below:

Age	0-10	10-20	20-30	30-40	40-50	50-60	60-70	70-80
No of Persons	15	30	53	75	100	110	115	125

22. What are the functions of Statistics?

23. Solve completely the following equations:

2x - 3y = 3 and 4x - y = 11 using matrices.

24. Explain the difference between Diagrams and Graphs.

25. Prove that A(B-C)=(AB)-C, by means of Venn Diagram.

26. Draw a Histogram to the frequency distribution given below:

Marks	10-15	15-20	20-30	30-40	40-50	50-75	75-100
No. of students	4	12	20	18	14	25	10

27. Compute the trend values by the method of Moving Averages( 3yearly )

Year	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Profit (in Lakhs)	12.2	14.5	15.2	13.8	17.6	18.2	16.8	17.2	18.8	19.4

28. If A={0,2,3,5}, B={-1,2,3,7,9} find:

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(a) AB.
(b)AB. (c)A-B
                          (d)(A-B)(B-A)
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### (6x4 = 24Marks)

#### Part D

Answer any two of the following. Each question carries 15 marks.

29. Apply Crammers Rule to find the solution to the following equations.

- 2x + 3y = 1; 3x + y = 5i)
- 3x + y + z = 8; x + y + z = 6, 2x + y z = 1. ii)

30. From the following table of marks of two students A and B in 10 sets of 100 marks each, find

out who is more intelligent and who is more consistent.

A	10	38	99	45	79	15	81	12	92	60
В	58	49	55	52	63	49	50	61	42	56

31. Construct the Index Number of Prices from the following data using a) Laspeyer's b) Paasche's & c) Fisher's formula.

Commodity	Base	year	Current year		
	Price	Price Quantity		Quantity	
Х	1.25	8	5	10	
Y	2	10	8.5	12	
Z	3	6	10	4	

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(2x15 = 30Marks)