# C 31087

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Name.....

Reg. No.....

THIRD SEMESTER B.Com./B.B.A. DEGREE EXAMINATION, NOVEMBER 2017

(CUCBCSS-UG)

Common Course

A 11-BASIC NUMERICAL SKILLS

Time : Three Hours

Maximum : 80 Marks

## Part I

Answer all questions.

None.

(d)

- 1. Given the term in the sequence 1, 3, 7, 15, 31, next term is :
  - (a) 62. (b) 46.
  - (c) 63. (d) 60.

2. A set contains only one element is called -

- (a) Singleton set. (b) Null.
- (c) Power set. (d) None of these.
- 3. The classification 10-19, 20-29, 30-39 is the example of :
  - (a) Exclusive. (b) Inclusive.
  - (c) Both.
- 4. Lorenz Curve is used to study :
  - (a) Skewness. (b) Kurtosis.
  - (c) Correlation. (d) Dispersion.
- 5. Pie diagrams are dimensional diagrams.
  - (a) One. (b) Two.
  - (c) Three. (d) Four.
- 6. A series is obtained by adding a constant number to its preceding term is -
  - (a) G.P. (b) A.P.
  - (c) G.P. or A.P. (d) None.

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7	. A well defined collection of defined obj	ect is called				
	(a) Matrix.	(b) Set.	and a state of the second s			
	(c) Equation.	(d) <sup>(</sup> None.				
8	. If A matrix of order $3 \times 7$ and B is ord	er of $7 \times 4$ , then AB is of order -				
12	(a) $3 \times 4$ .	(b) 7 × 7.				
, <sup>pade</sup> , C	(c) 3 × 7.	(d) 7 × 3.				
9	. What is the median for the following	1, 3, 5, 2, 6, 4, 7 ?	$\sigma$			
	(a) 2.	(b) 5.				
	(c) 6.	(d) 4.				
10	is filled by the enumer	rator.				
	(a) Questionnaire.	(b) Schedule.				
	(c) Questionnaire or schedule.	(d) All.				
а С		2	(10 × 1 = 10 marks)			
	Part II (Sh	ort Answer Questions)				
	Answer	any <b>eight</b> questions.				
11	. What is quadratic equation ?					
12	. What is editing ?					
18	. Define set.					
14	. What is geometrical progression ?	1				
18	Name the type of data for which multiple diagrams is used.					
16	Represent A = $\{x/x \text{ is an integer}, x^2 \le 4\}$ in roster form.					
1'	'. Solve $4x = 20$ .					
18	8. 'Find the Q.D. of the following :					
*	391, 384, 591, 407, 672, 522, 777, 14	90, 2488.				
19	). The third term of a GP is 4. Find the j	product of its first 5 terms.				
20	). Rahul borrows Rs. 500 for four months pay ?	s at a simple interest rate of 12%	. How much interest does he			
			$(8 \times 2 = 16 \text{ marks})$			

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#### Part III (Short Essays)

#### Answer any six questions.

- 21. Distinguish between questionnaire and schedule.
- 22. Consider the statement : "Integers between -3 and 3". Write the roster and set builder forms.
- 23. Find the inverse of a matrix A given by :

5 -2 4A = -2 1 14 1 0

- 24. Which term of the AP 4,9,14,....is 109?
- 25. A lorry covers the first 30 km. at the speed of 15 km. per hour, the second 30 km at the speed of 20 km. per hour and the last 30 km. at the speed of 25 km. per hour. Find the average speed of the lorry.
- 26. Find the simple interest rate for Rs. 3,000 to earn Rs. 270 interest in 9 months.
- 27. In an election 72,000 votes were casted. Out of four candidates, the first got 24,000 votes, the second got 20,000 votes, the third got 18,000 votes and the fourth got 10,000 votes. Draw a Pie-chart for these data.
- 28. Solve 5y + y = 30.

 $(6 \times 4 = 24 \text{ marks})$ 

#### Part IV (Long Essays)

#### Answer any two questions.

29. Construct with the help of the data given below Fisher's Ideal Index Number :

Commodity	Base Year Price	Base Year	Current Year Price	Current Year
		Quantity		Quantity
Α	6	50	10	56
В	2	100	2	120
C	4	60	· · 6	60
D	10	30	12	24 .
E	8	40	12	36
Solve $\cdot 3r + 8 - 1$	7		영국 관련을 감독하는 것이 없는 것이 없다.	144 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1

30. Solve : 3x + 8 = 17.

Sales

36

43

31. From the following data find the trend values by 5 yearly moving averages :

43

Year : 2000 2001 2002 2003 2004 2005 2006 2007 2008

44

54

34

24

14

34

 $(2 \times 15 = 30 \text{ marks})$ 

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