## 21U305S

(Pages: 3)

THIRD SEMESTER UG DEGREE EXA
(CUCBCSS

# CC15U GN3 A11 (1) / CC15U GN3 A11 (2

(General Co

(2015 to 2018 - Admissions - Sup

Time: Three Hours

## PART –

Answer all questions. Each qu

- I. Choose the correct answer:
  - 1. The best average to analyse speed is
    - (a) Harmonic Mean (b) Mode
  - 2. One common difference of the A.P 1,-1,-3,-5 (a) 1 (b) -1
  - 3. If A is a matrix of order 4x3 and b is a matrix will be
    - (a) 4x3 (b) 3x5
  - 4. Which of the following is true?

(a) 0ɛ { } (b) 0 C { }

- 5. Simple interest for a sum of Rs.500 for 2 yea (a) 580 (b) 420
- II. Fill in the Blanks:
  - 6. Mean and median of a series are 25. Then me
  - 7. Data regarding income, collected from villag
  - 8. The number of observations falling within a
  - 9. Co-efficient of Range is \_\_\_\_\_
  - 10. If Mean is 100 and standard deviation is 15 th

# PART – B

11. What is Histogram?

12. If 
$$A = \begin{bmatrix} 0 & -5 \\ 2 & 8 \\ 8 & 1 \end{bmatrix}$$
 Find 2A

(1)

5) Na	ame:
Re	eg. No:
	OVEMBER 2022
-UG)	
	IERICAL SKILL
ourse) oplementary/Impro	ovement)
	mum: 80 Marks
111111	
Α	
uestion carries 1 n	nark.
(c) Median	(d) Geometric Mean
5is	
(c) -2	(d) 2
	the order of the product
(c) 4x5	(d) 3x3
(0) 110	(u) 5N5
(c) 0ɛ {0}	(d) 0 C {0}
	terest 8 Percent p.a is
(c) 80	(d) 16
	(4) 10
odoje	
ode is	
e office records is	
class is called	
hen coefficient of	variation is
	$(10 \times 1 = 10 \text{ Marks})$
R	

Answer any *eight* questions. Each question carries 2 marks.

**Turn Over** 

13. Distinguish between simple interest and compound interest.

14. Define mean.

15. Solve $2(x + 1) + 3(y - 1) = 11$ ,	
4x3y = 18.	29.
16. What is kurtosis?	
17. Find the 20 <sup>th</sup> term of the A.P whose first term is 5 and common difference is 2.	
18. Find the 8 <sup>th</sup> term of the G.P 1, $\frac{1}{2}$ , $\frac{1}{4}$ , $\frac{1}{8}$	
19. Define Karl Pearson's co-efficient of Skewness.	
20. A distribution consists of 3 components with total frequencies 200, 250 and 300 having	
means of 25,10 and 15 respectively. Find out mean of combined distribution?	

$$(8 \times 2 = 16 \text{ Marks})$$

### PART – C

Answer any *six* questions. Each question carries 4 marks.

21. Calculate QD and its coefficient for the data given below

X :-	2-5	5-8	8-11	11-14	14-17
Y:-	2	5	9	12	2

## 22. During 10 weeks of the session the marks scored by two candidates Jayanth and Vasanth

taking the computer programme course are given below

Jayanth : 58 59 60 54 65 66 52 75 69 52

Vasanth: 87 89 78 71 73 84 65 66 56 46

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Who is more consistent? Who is more efficient?
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- 23. Why the standard deviation considered to be the best measure of dispersion? Explain the advantages and disadvantages of standard deviation.
- 24. Find the sum of all integers (whole numbers) in between 10 and 200 which is exactly divisible by 7.
- 25. The first term of a series in AP is 4.2 and the sum of the first 5 term is 178.5. Find the 5<sup>th</sup> term.
- 26. In what time will a sum of money double itself at 10% p.a simple interest?
- 27. Calculate geometric mean of the following figures. 57.5, 87.75, 53.5, 73.5, 81.75
- 28. Find the Karl Pearson's Co- efficient of Skewness from the following data

Х	3	4	5	6	7	8	9	10
F	7	10	14	35	102	136	43	8

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

PART – D

Answer any *two* questions. Each question carries 15 marks.

9. Construct the index number of prices from the following data using

(a) Lasperyer's	(b) Paasche's				
Commodity	2000				
	Price	Quantity			
А	10	50			
В	6	100			
С	8	60			
D	14	30			
Е	12	40			

30. What do you mean by statistics? Explain the various methods used for data collection.

	[2							
31. If <i>A</i> =	5	7	9	and $B =$	1	2	0	Vei
	L-2	1	1		0	3	1	

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(c) Fisher's formula

2001

Price	Quantity
18	56
10	120
14	60
20	25
18	35

erify that (AB)' = B'A'

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