18U158

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FIRST SEMESTER B.Com. Professional DE	GR
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CC17U BCP1 B03 – N	UM
(Core C	loui
Time: Three Hours	
PAR	T A
Answer all questions. Each	h qu
I. Choose the correct answer:	

1.	The equation $3x + 5 = 0$ has :					
	(a) No solution	(b) Three solution	(
2.	3, x,12 are in G.P the	n x is				
	(a) 36	(b) 7.5	(
3.	Lorenz curve is used	to study				
	(a) Skewness	(b) Kurtosis	(
4.	Cyclic variations are	Mover	n			
	(a) Regular	(b) Long term				
5.	is fill	ed by enumerator.				
	(a) Questionnaire	(b) Schedule	(

II. Fill in the blanks

- 7. The sum of first n terms of a G.P., a. ar, ar^2 ,
- 8. Cardinal number of power set containing "n"
- 9. is the reciprocal of A.M. of the
- 10. Mean and Median of a series are 25 then mod

PART B

- 11. What do you mean by Geometric mean?
- 12. Define trace of a matrix with example.
- 13. The third term of a G.P is 4 and 1st term is 1. Then find the product of first five terms.
- 14. Solve the system of equation x+y = 6 3x + y = 8

(1)

3)	Name: .	
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rse)		
		Maximum: 80 Marks
A		
uestion carri	es 1 mark	ζ.
(c) One solu	tion	(d) None of these

(c) 9	(d) 6
(c) Dispersion nents.	(d) Correlation
(c) Periodic	(d) None

(d) All

zero then the roots are
² , ar ³ , is
" elements is
he reciprocal of a set of observations.
ode is

(10 x 1 = 10 Marks)

(c) a or b

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

Turn Over

15. Find the amount after 2 Years for Rs 10,000 at 6% p.a. if compounding is done half yearly?

16. Find the inverse of the matrix

 $\left(\begin{array}{c}
1\\
2
\end{array}\right)$ -2 3

17. Find A.M of 70, 50, 49, 13, 25, 45, 17, 23, 56, 15, 12?

18. State Demorgans Law?

19. Define Equal sets and Equivalent Sets?

20. What is editing?

(8 x 2 = 16 Marks)

PART C

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

21. Solve $x^4 - 31 x^2 + 150 = 0$

22. Which term of the series 17, 23, 29, is 551?

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23. If A=	1	2	3	B=	1	0	5	
	2	0	1		2	2	-4	Find AB?
	1	-1	2		1	2	3	
	$\overline{\ }$				$\overline{\ }$			

24. What do you mean by Time series Analysis?

- 25. In a class of 40 students 16 studied Malayalam, 22 French, 26 Hindi, and 5 studied Malayalam and French, 14 Hindi and French, 2 Malayalam Hindi and French, Find How Many studied Malayalam and Hindi, but not French?
- What sum of Money put out at 4% per annum compound interest for 18 years will 26. amount to Rs 10,000?
- 27. Find the first four central moments for the values 8, 10, 12, 7, 18 and coefficient of Skewness?
- 28. Draw a Frequency curve from the following data?

Class limits	:	0-5	5-10	10-15	15-20	20-25	25-30	30-35	35-40	40-45	45-50
Frequency	:	32	38	48	90	120	112	80	62	47	21

(6 x 4 = 24 Marks)

Answer any two questions. Each question carries 15 marks.

29. Calculate Laspeyer's Paasche's and Fisher's Index Numbers from the following data?

Commodity	Price 2009	Price 2010	Quantity	Quantity
			2009	2010
А	0.80	0,70	10	11
В	0.85	0,90	8	9
С	1.30	0.80	5	5.5

30. Find S.D and coefficient of variance from the following Data?

Class	:	10-20	20-30	30-40	40-50	50-60	60-70	70-80
Fre	:	12	10	13	15	20	18	12

31. Solve the Equation by Matrix method.

5x -6y +4z =15 7x + 4y - 3z = 192x + y + 6z = 46

PART D

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