

CA FOUNDATION SUBJECT-MATHEMATICS, LOGICAL REASONING & STATISTICS

Test Code - CFN 9241

(Date :)

(Marks - 100)

None

TOPIC : FULL MATHEMATICS, LOGICAL REASONING & STATISTICS

- 1. Mr. Raval purchased a machine on 1/4/2005 and agreed to pay 10 instalment each of Rs. 24000 at the end of every financial year inclusive of interest. If the compound rate of interest is 15% then the value of machine at present is $[(1.15)^{10} = 4.046]$
 - (a) 60227 (b) 120455 (c) 220455 (d)
- 2. $\int x^3 \cdot e^x dx = _____.$ (a) $(x^3 + 3x^2 + 6x + 6) e^x + c$ (b) $(x^3 - 3x^2 - 6x + 6) e^x + c$ (c) $(x^3 - 3x^2 + 6x - 6) e^x + c$ (d) $(x^3 - 3x^2 - 6x - 6) e^x + c$
- **3**. What is the coefficient of concurrent deviations for the following data :

O						0		
Year :	2011	2012	2013	2014	2015	2016	2017	2018
Price	135,	138	140	133	145	148	149	152
Demand	236	235	231	236	230	229	227	224
(a) —	1	(b)	0.43		(c) 0	.5	(d)	$\sqrt{2}$

- **4**. There are 15 two rupee coins, 25 five rupee coins and 10 ten rupee coins in a bowl. If a coin is selected at random from the bowl, then the probability of not selecting a ten rupee coin is
 - (a) 0.20 (b) 0.80 (c) 0.75 (d) None
- 5. Find the missing term : 4,7, 12, 19, 28 ?
 - (a) 30 (b) 36 (c) 39 (d) 49
- **6.** Arjun buys a house for which he agrees to pay Rs. 5000 at the end of each month for 8 years. If money is worth 12% converted monthly, what is the capital value of the house ?

(a) Rs. 307638.50 (b) Rs. 310825.60 (c) Rs. 25902.75 (d) none of these

- 7. Ten years ago the age of Sanjay was four times of his son. Ten years hence his age will be twice of his son. The present ages of Sanjay and his son are.
 - (a) (58, 20) (b) (60, 20) (c) (50 20) (d) None of these

8. The formula used in a Pie – diagram to find the angle is

- (a) (Value of the component / total of all components) × 360°
- (b) (value of the component + total of all components) × 360°
- (c) Either (a) or (b)
- (d) None of these

9. In an intelligence test administered to 1,000 students, the average score was 42 and the standard deviation is 24. Find the number of students exceeding a score of 50.
(a) 370
(b) 350
(c) 360
(d) 320

10. There are five Girls P, Q, R, S, T, sitting in a park in a circular way. Q and T are right opposite to P and S respectively and R is equidistant between S and Q. P is facing South – West while S is facing South – East. Which direction is R facing ?
(a) East
(b) West
(c) South
(d) North

- **11.** You are given 6 balls of different colours (black, white, red, green violet, yellow) ; In how many ways can the 6 balls be arranged in a row, so that black and white balls may never come together.
 - (a) 480 (b) 580 (c) 680 (d) None of these
- **12.** On the average experienced person does 7 units of work while a fresh on e5 units of work daily but the employer has to maintain an output of at least 50 units of work per day. This situation can be expressed as
 - (a) $7x + 5y \le 50$ (b) 7x + 5y > 50
 - (c) $7x + 5y \ge 50$ (d) none of these
- **13.** A man travels from village A to village B at a speed of 8 km/ hr. On his way back, he travels at a speed of 4 km/ hr. Find his average speed.
 - (a) 6 (b) 5.33 (c) 6.67 (d) 8.67
- 14.In a partially destroyed laboratory record of an analysis of correlation data, only the
following results are legible : Variance of X = 9,
Regression equations : 4X 5Y + 33 = 0 and 20X 9Y = 107
On the basis of the above information, the value of σ_y is :
(a) 5 (b) 7 (c) 4 (d) None

Each of the following, questions contains two statements followed by two conclusions numbered I and II. You have to consider the two statements to be true, even if they seen to be at variance at the commonly known facts. You have to decide which of the given conclusions definitely follows from the given statements.

Answer (a) if only I follows ; (b) if only conclusion II follows; (c) if either I or II follows ; (d) if neither I nor II follows:

15. Statement : Some cups are laptop.

All keys are laptop

Conclusions : I. Some cups are keys.

II. Some keys are cups.

16. Statements : All pens are roads.

All roads are houses

Conclusions : I. All houses are pens.

II. Some houses are pens

17. Statements : Some pastries are toffees.

All toffees are chocolates.

Conclusions : I. Some Chocolates are toffees.

II. Some toffees are not pastries.

- 18. If the inflexion points of a Normal Distribution are 6 and 14. Find its Standard Deviation ?
 - (a) 4 (b) 6 (c) 10 (d) 12

- **19.** Following are the wages of 8 workers expressed in Rs. : 82, 96, 52, 75, 65, 70, 70, 50. Find the range and also its coefficient.
 - (a) Rs. 42, 31.51% (b) Rs. 46, 31.51% (c) Rs. 46, 31.15% (d) Rs.46, 30.15%
- **20.** Find the amount of an annuity of Rs. 2000 payable at the beginning of each month for 3 years at the rate of 15% compounded monthly.
 - (a) Rs. 85873.86 (b) Rs. 91358.90 (c) Rs. 96399.26 (d) none of these
- **21.** If in an A.P. whose first term is 2, the sum of first six terms is equal to one third of the sum of next six terms, the common difference of the A.P. is
- (a) 4 (b) -4 (c) ± 4 (d) None of these 22. If $A = \begin{bmatrix} 1 & 0 \\ 1/2 & 1 \end{bmatrix}$ then A^{50} is (a) $\begin{bmatrix} 1 & 0 \\ 0 & 50 \end{bmatrix}$ (b) $\begin{bmatrix} 1 & 0 \\ 50 & 1 \end{bmatrix}$ (c) $\begin{bmatrix} 1 & 25 \\ 0 & 1 \end{bmatrix}$ (d) $\begin{bmatrix} 1 & 0 \\ 25 & 1 \end{bmatrix}$

Suppose, a business executive was earning Rs. 2050 in the base period, what should be his salary in the current period if his standard of living is to remain in the same ? Given that : ΣW = 25, ΣIW = 3544
(a) Rs. 2906
(b) Rs. 2606
(c) Rs. 2806
(d) Rs. 2706

24. There are 6 pairs of observed values having rank correlation coefficient 0.4. In rechecking it was found that the difference in rank for one observed pair was taken 3 instead of 4. The rectified rank correlation coefficient is _____.
(a) 0.3 (b) 0.2 (c) 0.25 (d) 0.28

25. Five persons are standing in a line. One of the two persons at the extreme ends is a professor and the other a businessman. An advocate is standing to the right of a student. An author is to be left of the businessman. The student is standing between the professor and the advocate. Counting from the left, the advocate is at which place? (a) 1^{st} (b) 2^{nd} (c) 3^{rd} (d) 5^{th}

26. If
$$x^{2/3} + y^{2/3} = a^{2/3}$$
 then $\frac{dy}{dx} =$

(a)
$$\sqrt{\frac{x}{y}}$$
 (b) $\sqrt[3]{\frac{x}{y}}$ (c) $\sqrt[4]{y/_{\chi}}$ (d) $\sqrt[3]{y/_{\chi}}$

27. What is the present value of Re. 1 to be received after 5 years, compounded annually at 8%?

- (a) Re. 0.70 (b) Re. 0.86 (c) Re. 0.68 (d) None
- **28**. A bucket can contain 6 green cars and 4 blue cars. If mummy took 2 cars for her children and pays Rs. 10 and Rs. 20 for a green and blue cars respectively, then her expected amount to pay is

(a) Rs. 28 (b) Rs. 35 (c) Rs. 46 (d) None

- 29. If the variables are increased or decreased by the same amount, the quartile deviation is(a) decreased (b) Increased (c) unchanged (d) None

(a) West (b) North (c) South (d) South – East

31.	(a) {a, b, c, d, e, f, i} (b) {a, b, c, d, c, f, o} (c) {a, b, c, d, c, f, u} (d) None The quartiles of a variable are 45, 52 and 65 respectively. Its quartile deviation is (a) 10 (b) 20 (c) 25 (d) 8.30 The two lines of regression are $3x - 5y + 6 = 0$ and $5x - 3y + 1 = 0$. What is the correlation coefficient between x and y? (a) $-3/5$ (b) $3/5$ (c) $4/25$ (d) None of these Amit said "This girls is the wife of the grandson of my mother." How is Amit related to the girl? (a) $-3/5$ (b) $3/5$ (c) $4/25$ (d) None of these Amit said "This girls is the wife of the grandson of my mother." How is Amit related to the girl? (a) Brother (b) Grandfather (c) Husband (d) Father-in-law Ram purchased a house for which he agreed to pay Rs. 5000 at the beginning of each 3 months until he has made 10 payments. If money is worth 6% compounded quarterly, what is the equivalent cash price of the house ? (a) Rs. 46802.58 (b) Rs. 47108.60 (c) Rs. 46399.26 (d) none of these Solving $x^3 + 9x^2 - x - 9 = 0$; we get the following roots (a) ± 1 ; -9 ; (b) ± 1 ; ± 9 ; (c) ± 1 ; 9 (d) None If the standard deviation of 1^{4i} n natural numbers is 2, then the value of <i>n</i> is (a) Rs. 1704.50 (b) Rs. 1825.50 (c) Rs. 2104.25 (d) None If $y = \sqrt[3]{\log x + \sqrt[3]{\log x + \sqrt[3]{\log x + \cdots \propto}}}$ then $\frac{dy}{dx} =$ (a) $\frac{1}{(3y^2-1)}$ (b) $\frac{1}{3y^2-1}$ (c) $\frac{1}{x(3y^2-1)}$ (d) $\frac{1}{x(3y^2+1)}$ In an examination the question paper contains three different sections A, B & C containing 4, 5, & 6 question respectively? In how many ways, a candidate can make a selection of 7 question selecting at least two questions from each sections? (a) 1 (b) -1 (c) ± 1 (d) 0 The data given as 1, 3, 5, 7, 9, 11 will be called as (a) 1 (b) -1 (c) ± 1 (d) 0 The data given as 1, 3, 5, 7, 9, 7, 11 will be called as (d) a discrete series (c) an individual series (b) a discrete series (c) an individual series (c) an individual series (c) an individual series (c) an individual series (c) (c) ± 1 (c) ± 1 (c) ± 1 (d) 0 The d	
	(a) $k \neq -5$ (b) $k = 9$ (c) k is any real number (d) None of these	
32.	•••••••••••••••••••••••••••••••••••••••	
33.	The quartiles of a variable are 45, 52 and 65 respectively. Its quartile deviation is (a) 10 (b) 20 (c) 25 (d) 8.30	
34.	The two lines of regression are $3x - 5y + 6 = 0$ and $5x - 3y + 1 = 0$. What is the correlation coefficient between x and y? (a) $-3/5$ (b) $3/5$ (c) $4/25$ (d) None of these	
35.	Amit said "This girls is the wife of the grandson of my mother." How is Amit related to the girl ?	
	(a) Brother (b) Grandfather (c) Husband (d) Father – in – law	
36.	what is the equivalent cash price of the house ?	
37.	Solving $x^3 + 9x^2 - x - 9 = 0$; we get the following roots (a) ± 1 ; -9; (b) ± 1 ; ± 9 ; (c) ± 1 ; 9 (d) None	
38.	If the standard deviation of 1 st n natural numbers is 2, then the value of <i>n</i> is (a) 4 (b) 6 (c) 7 (d) 9	
39.	If linear trend line equ. By least square method taking 2012 as base year is Y ₁ = 1550 + 25.75X. The value of trend value of year 2018 is (a) Rs. 1704.50 (b) Rs. 1825.50 (c) Rs. 2104.25 (d) None	
40.	If $y = \sqrt[3]{\log x + \sqrt[3]{\log x + \sqrt[3]{\log x + \dots \propto}}}$ then $\frac{dy}{dx} =$	
	(a) $\frac{1}{(3y^2-1)}$ (b) $\frac{1}{3y^2-1}$ (c) $\frac{1}{x(3y^2-1)}$ (d) $\frac{1}{x(3y^2+1)}$	
41.		
42.	$\int_{-1}^{1} \log\left(\frac{2-x}{2+x}\right) dx =$	
43.	The data given as 1, 3, 5, 7, 9, 11 will be called as (a) a continuous series (b) a discrete series	
44.	The weighted arithmetic mean of the four numbers 26, 28, 12 and 4 is 10.7. If the weights of the first three numbers are 1, 3 and 4, respectively, then find the weight of the fourth	
	number. (a) 5 (b) 6 (c) 7 (d) None	

45.	Five friends P, Q, R, S and Q is to the immedi (a) S (ne imme			
46.	If $y = \frac{e^x + 1}{e^x - 1}$ then $\frac{dy}{dx}$ is e	qual to					
	(a) $\frac{-2e^x}{(e^x-1)^2}$			(b)	$\frac{2e^x}{(e^x-1)^2}$		
	(c) $\frac{-2}{(e^x-1)^2}$			(d)	None of the	se	
47.	Mr. X borrows Rs. 300 back Rs. 1000. How mu (a) Rs. 1583 (d pay at t	he end			
48.	There are 100 balls nur what is the probability both ?						
	(a) 0.25 ((b) 0.42		(c)	0.35	(d)	0.05
49.	For a moderately non - deviation.					-	
		b) False		. ,	Both	(d)	None
50 .	If in a certain language GBNPVT ? (a) FARMER (e, POPULAR (b) FAMC			VMBS, whic FRAMES	h word v (d)	vould be coded as FARMES
51.	Out of total 1500 stud both Accounts and Ma Costing, 250 students p in anyone of the subject	ths. 320 in bo bassed in all	oth Math	is and co	osting, 350 ir	n both Ac	counts and
	(a) 630 ((b) 530		(c)	730	(d)	None
52.	How many numbers of repeated) ? How many (a) (720, 600) (b) (of these are	not divis	sible by	5?	., 2, 3, 4, 5 e of the a	
53.	For the data given calc $\Sigma P_1 Q_0 = 3365$, $\Sigma P_0 Q_0 =$ (a) 99 (• •	= 3600 90.25	(d)	94.88
54.	The number of student location is given below		l chartere	ed accou	intancy as p	rofession	for 13 years in a
	Year		3 4	56	7 8 9	10 11	12 13
	Frequency (no. Of	53 42 3	3 27	18 12	6 7 2	6 3	1 1
	students)						
	What is the number of	students wh	o opted	for less	than 3 years	for the c	ourse ?
	(a) 83 ((b) 95		(c)	128	(d)	116
55.	Markandey is Rajiv's m grandson Abhi. Rajan is			•		hers. One	e of them has

(a) Brother (b) Nephew (c) Cousin (d) Uncle

56. A man makes two types of furniture : chairs and tables. Profits are Rs. 20 per chair and Rs. 30 per table. Both the products are processed on two machines M₁ and M₂. The time required for each product in hours and total time available in hours for each machine are as follows :

Machine	Chair	Table	Available Time
M_1	3	3	36
M ₂	5	2	50

Constraints can be formulated by taking x = the number of chairs any y = the number of tables produced as :

(a)	$x + y \le 12$	(b)	$x + y \le 12$,	(c)	$x + y \ge 12$	(d) None of these
	$5x + 2y \ge 50$		$5x + 2y \le 50$		$5x + 2y \le 50$	
	$x \ge 0; y \ge 0$		$x \ge 0; y \ge 0$		$x \ge 0; y :\ge 0$	

57. The nth term of the sequence
$$\frac{1}{2}$$
, $\frac{1}{6}$, $\frac{1}{12}$ is

(a)
$$\frac{1}{n^2-1}$$
 (b) $\frac{1}{n^2+n}$ (c) $\frac{1}{n^2-n}$ (d) $\frac{1}{n^2+2}$

58. A company has two cars which it hires out during the day. The number of Cars demanded with mean 1.5. Then percentage of days on which only one car was in demand is equal to ____? Where e^{1.5} = 4.4815.
(a) 23.26 (b) 33.47 (c) 44.62 (d) 46.40

59. You are given the population of India for the courses of 1981 & 1991. You are to find the population of India at the middle of the period by averaging these population figures, assuming a constant rate of increase of population. What is the suitable form of average in this case ?

none

None of these

- (a) A.M. (b) G.M. (c) H.M. (d)
- **60.** Six persons A, B, C, D, E and F are sitting in two rows, three in each row.
 - (I) E is not at the end of any row
 - (II) D is second to the left of F
 - (III) C, the neighbor of E, is sitting diagonally opposite to D
 - (IV) B is the neighbor of F.
 - Which of the following are in one of the two rows ?
 - (a) F, B (b) D, B and F (c) C, E and B (d) A, E and F
- **61.** If f(x) = 100 x then f-1(x) =
 - (a) $\frac{x}{100}$ (b) $\frac{1}{100x}$ (c) $\frac{1}{100}$ (d) None of these

62. If Rs. 510 be divided among A, B, C in such a way that A gets $\frac{2}{3}$ of what B gets and B gets $\frac{1}{4}$ of what C gets, then their shares are respectively :

- (a) Rs. 120, Rs. 240, Rs. 150 (b) Rs. 60, Rs. 90, Rs. 360
- (c) Rs. 150, Rs. 300, Rs. 60 (d)
- **63.** Damages due to strikes, fires, political disturbances, floods, droughts, etc. are examples of _____variation.
 - (a) Cyclical (b) Trend (c) Irregular (d) Seasonal

64.	If all the values are multiplied by the same quantity, the & also would be multiple of the same quantity.							
	 (a) mean, standard deviation (b) mean, median (c) mean, mode (d) All of the Above 							
65.	If in a certain code, LUTE is written as MUTE and FATE is written as GATE, then how will BLUE be written in that code ?							
	(a) CLUE (b) GLUE (c) FLUE (d) SLUE							
66.	If $(x + y) : (y + z) : (z + x) = 6 : 7: 8$ and $x + y + z = 14$ then the value of z is (a) 4 (b) 5 (c) 7 (d) 6							
67.	If the sum of n terms of an A.P. is $(3n^2 - n)$ and its common difference is 6 then its first term is (a) ± 2 (b) ± 1 (c) 1 (d) 2							
68.	The incidence of dengue disease in Laxmi Nagar (Delhi) is such that people of there have a							
	10% chance of suffering from it. What is the probability that out of 5 people 3 or more will suffer from this disease ?							
	(a) 0.005 (b) 0.0081 (c) 0.086 (d) None							
69.	Given that the standard deviation of a given set of observations is 2.336 and the mean is 83.8, find the coefficient of variation.							
70	(a) 2.79 (b) 2.69 (c) 2.89 (d) 2.59							
70.	Six members of a family namely P, Q, R, S, T and U are travelling together. Q is the son of R but R is not the mother of Q. P and R are married couple. T is the brother of R. S is the daughter of P. U is the brother of Q. How many male members are there in the family ? (a) 5 (b) 3 (c) 4 (d) 2							
71.	If $\left \frac{3x-4}{4}\right \leq \frac{5}{12}$, the solution set is :							
	(a) $\left\{x:\frac{19}{18} \le x \le \frac{29}{18}\right\}$ (b) $\left\{x:\frac{7}{9} \le x \le \frac{17}{9}\right\}$							
	(c) $\left\{x: \frac{-29}{18} \le x \le \frac{-19}{18}\right\}$ (d) None of these							
72.	If 3 log $x - 4 \log y + 2 \log xy = \log z$ then the value of z in terms of x and y is							
	(a) $\frac{x}{y}$ (b) $\sqrt{\frac{y}{x}}$ (c) $\frac{y^2}{x^5}$ (d) $\frac{x^5}{y^2}$							
73.	Suppose 70% of the tourists who come to India will visit Agra while 60% will visit Goa and 50% will visit both Agra and Goa. What is the probability that the tourist will visit either Goa or Agra ?							
74.	(a) 0.2 (b) 0.8 (c) 0.95 (d) 0.1 The above data is 40, 50, 50, 56, 78, 80, 45, 80, 59, 34, 23, 90, 34, 45							
	(a) unimodal (b) multimodal (c) bimodal (d) None of these							
75.	From home Neha goes towards North for her college and then she turns left and then turns right, and finally she turns left and reaches college. In which direction her college is situated with respect to her home ?							
	(a)South – West(b)North – East(c)North – West(d)South – East							

76.	$\frac{3 + \log_{10}^{343}}{2 + \frac{1}{2} \log\left(\frac{49}{4}\right) + \frac{1}{3} \log\left(\frac{1}{1}\right)}$	$\frac{1}{25}$ is equal	to					
	(a) 0	(b)	1	(c)	2	(d)	3	
77.	Compound Inter same amount of	est rate 59 interest, tl	% compound	led annua ion betwe	lly. At the e en two amo	nd of two unts P and		
78.	18. The probabil	ity of P (X >	• 10) is				values 5, 7, 12, 15,	,
	(a) 3/5	(b)	2/5	(c)	4/5	(d)	None	
79.	A family has 2 bo random from ea (a) 2/35			-	-	-	e child is selected a 5/25	t
00		()		.,		()	0, 20	
80.	Find the Odd ma (a) 4	n out : 4, 1 (b)	.0, 22, 46, 96 10	, 190, 382 (c)	96	(d)	382	
81.	increment of Rs.	15,000 pe		he sum of	the salary h	e taken in	and the received a 10 years None of these	n
82.	lf a = 5 ^{1/3} + 5 ^{-1/3} (a) 25	, then the (b)	value of 5a ³ 26	– 15a is eo (c)	qual to 27	(d)	28	
83.		ilies in a ra	indom samp	-		o do not u	e the probability c se gas as fuel ? Yo] 0.008	
84.	In a correlation s	study of tw	o variables X	and Y, the	e following v	alues are	obtained :	
	$\overline{X} = 45, \ \overline{Y} = 54,$	-			-			
			(0.64, 1.00)				e of these	
85.	He then drives t After that he tur to the starting p	owards eas ns to his le oint ?	t another 10 oft and trave) km and t ls 15 km.	hen turns to In which dir	his right ection is f	r of another 10 km and drives 12.5 km ne now with respec	n.
	(a) West	(b)	South	(c)	North	(d)	East	
86.	Mr. Paul borrov installments of R						5% p.a. in annua aid off is	al
	(a) 10 years	(b)	12 years	(c)	11 years	(d)	none of these	
87.	The simplificatio (a) ⁿ⁺¹ C _r	n of $\frac{(n-r+1)}{r}$ (b)	$\frac{()}{r} \cdot {}^{n}C_{r-1}$ is	(c)	ⁿ⁻¹ Cr	(d)	$^{n+1}C_{r-1}$	
88.	From a well shu that three cards	-				random.	Find the probabilit	;y
	(a) $\frac{4}{5525}$	(b)	5 5525	(c)	6 5525	(d)	7 5525	

89. In the following frequency distribution of the pulse rate of patients, one of the class frequencies is missing and the median is 78. Find the missing frequency.

	frequencies	is missir	ng and the	median is	5 78. Find t	he missing	frequency		_		
	Pulse Rat	е	64 – 68	68 – 72	72 – 76	76 – 80	80 - 84	84 - 88			
	No. of Pa	tients	3	12	-	40	32	11			
	(a) 28		(b) 3	32	(c)	31	(d)	29	1		
90.	Find the mis	sing terr	m: 1. 6. 15	?. 45. 66.	91						
	(a) 25			26	(c)	27	(d)	28			
91.	If x, y, z are t	the term	ns in G.P. tl	hen the te	$x^2 + y^2$	² , xy + yz, y	² + z ² are ii	า:			
	(a) A.P.		(b) (G.P.	(c)	H.P.	(d) None	e of these			
92.	The ratio compounded of 4 : 9, the duplicate ratio of 3 : 4, the triplicate ratio of 2 : 3 and 9 : 7 is										
	(a) 2:7		(b) 7	7:2	(c)	2 : 21	(d) none	e of these			
93.	Six fair coins	are tos	sed simult	aneously.	Find the p	robability	of getting a	at least 3 he	eads.		
	(a) $\frac{11}{32}$		(b) $\frac{1}{6}$. <u>5</u>	(c)	$\frac{1}{32}$ (0	d) None	e of the abo	ove		
94.	The probabi	lity that	-	-		01		atches fin	d tha		
54.	probability t	-				.40. 11 111016	a piays 5 m	atches, fill	u the		
		nat man				0.62	(-1)	0.44			
	(a) 0.21		(b) ().11	(c)	0.63	(d)	0.41			
95.	Five children are sitting in a row. S is sitting next to P but not T. K is sitting next to R, who is										
	sitting on the extreme left and T is not sitting next to K. Who is / are adjacent to S?										
	(a) R and	d P	(b) k	Cand P	(c)	Only P (c	d) Pan	d T			
96.	An annuity o	onsistin	g of paym	ents of Rs	. 500 made	e at the en	d of every	3 months f	or 4		
	An annuity consisting of payments of Rs. 500 made at the end of every 3 months for 4 years at the rate of 6% compounded quarterly. Its Future value is										
	(a) Rs. 8	966.18	(b) F	Rs. 8108.6	0 (c)	Rs. 9602.	.75 (d) r	none of the	se		
97.	If A = {1, 2, 3	} then t	he relatior	n R = {(1, 1	.), (2, 3), (2	, 2), (3, 3),	(1, 2)} on <i>i</i>	A is :			
	(a) Refle	xive	(b) S	Symmetric	: (c)	Transitiv	e (d) Equi	valence			
	()										
98.	A textile we		-		-			-	lex for a		
	particular III		1360. Find the tota Group		Expenditur Expenditur		p Index	iirig.			
		Food	•		1400		.80				
		Clot	hing		?	1	.50				
		Hou	se rent		?	1	.00				
		Fuel	and lightin	ng	560	1	.10				
		Misc	cellaneous		630		80				
	(a) 910		(b) 8	810	(c)	490	(d)	420			
99.	Which of the	e followi	ng is a on	e- dimens	ional diagr	am ?					
	Which of the following is a on e- dime (a) Bar diagram				(b)	Pie diagr	am				
		graph			(d)	Cylinder					
4.0.0	c			6.0.11			(

^{100.} Seema is the daughter – in – law of Sudhir and sister – in law of Ramesh, Mohan is the son of Sudhir, brother of Ramesh. Find the relation between Seema and Mohan.

(a) Sister – in – law (b) Aunt (c) Cousin (d) Wife