How many total combinations can be formed of 8 different counters marked as 1, 2, 3, 4, 5, 6, 7 & 8, taking 4 counters at a time and there being at least one

(B) 66

(D) 62

odd and one even numbered counter in each combination?

1.

(A) 68

		(C)	64			(D)	62			
2		In a p	party ev	ery pers	on shakes	hands with	every othersons in the	her person ne party.	n. If there a	ire 105
		(A)				(B)				
		(C)			•	(D)	22			
3	3.	Prin	cipal. A ble for the principal contract the	mongst	of Princip	r one post of andidates can bal, while the fossible coefficient (B)	ey all six	are eligit ars for the	ole for the	post of
		(C)	18			(D)	20			
4	4.	anni If ea	um The	principa	al and the	t borrows ₹ interest are than the prec	to be paid	in 10 mo	nthly instal	ments.
		(A)	1,024			(B)	4,608			
		(C)	9,207			(D)	4,096			
		(0)	hatisha			F T				
5	5.	that	class of no two sit togeth	girls car	and 3 girl n sit toget	s, they are r her. Compu	equired to te, in hov	o sit in a r v many d	row in such ifferent wa	a way ys they
		(A)	60			(B)	480			
		(C)	720			(D)	1,440			
						SPK				

The numbers x, 8, y are in G.P. and the numbers x, y, -8 are in A.P. The 6. values of x and y respectively shall be:

(A) 16, 4

(B) 4, 16

(C) 4, 8

(D) 8, 4

If fourth term of A.P. series is zero, then what is the ratio of twenty-fifth term 7. to eleventh term?

(A) 5

(B) 4

(C) 3

(D) 2

8. Let  $A = \{1, 2, 3\}$  and consider the relation  $R = \{(1, 1), (2, 2), (3, 3), (1, 2), (2, 2), (3, 3), (1, 2), (2, 2), (3, 3), (1, 2), (2, 2), (3, 3), ($ (2, 3), (1, 3), then R is

(A) Creflexive but not transitive allable in Studycaller App

(B) Reflexive but not symmetric

(C) Symmetric and Transitive

(D) Neither symmetric nor transitive

If  $f(x) = x^2 + x - 1$  and 4f(x) = f(2x), then find the value of 'x'. 9.

(A) 3/2

(B) 2/3

(C) 3/4

(D) 4/3

If for an infinite geometric progression, first term is 'a', common ratio is 'r', 10. the sum is 8 and the second term is  $\frac{7}{8}$ , then:

(A)  $a = 3 \& r = \frac{7}{24}$ 

(B)  $a = 4 \& r = \frac{7}{16}$ 

(C)  $a = 7 \& r = \frac{1}{8}$ 

(D)  $a = 2 \& r = \frac{7}{32}$ 

A town has a total population of 50,000. Out of it 28,000 read the newspaper 'X' and 23,000 read newspaper 'Y', while 4,000 read both the newspapers. The number of persons not reading any of the two newspapers are:

(A) 2,000

(B) 3,000

(C) 2,500

(D) 5,000

(C) 2,500 . (D) 5,000 If  $x^y \times y^x = 16$ , then the value of  $\frac{dy}{dx}$  at (2, 2) is :

(A) -1

(B) 0

(C) 2

(D) -2

If  $x = t^2$  and  $y = t^3$ , then  $\frac{d^2y}{dx^2}$  is equal to:

(A)Complete pdf availaBle4in Studycaller App

- (C)  $\frac{3}{21}$
- (D)  $\frac{3}{2}$

14.  $\int \log_e x \, dx$  is equal to :

- (B)  $x \log_e \left(\frac{x}{e}\right) + c$
- (A)  $x \log_e(ex) + c$ (C)  $x \log_e(\frac{e}{x}) + c$
- (D)  $\log_{e}\left(\frac{x}{e}\right) + c$

If a set contain n elements, then the total number of proper subsets of set is:

(A) 2<sup>n</sup>

(B)  $2^{n}-1$ 

(C)  $2^{n-1}$ 

(D)  $2^{n}-2$ 

- Find the next number in the series 2, 5, 11, 23, 47, ...
  - (A) 84

(B) 95

(C) 98

- 105
- If TAP is coded as SZO in a language, then how is FRIEND coded in same language?
  - (A) CMDHQE

(B) QEDHCM

(C) EQIENE

- (D) EQHDMC
- Find the odd man out from the following series: 7, 23, 47, 119, 171, 287 18.
  - 119 (A)

171 (B)

(C) 287

- 7
- In a certain code, RIPPLE is written as 613382 and LIFE is written as 8192. วันเดา Studycaller App
  - (A) 318826

(B) 318286

(C) - 618826

- (D) 338816
- AZ, GT, MN,...., YB, EV. The value at blank space (....) will be:
  - (A) JH

(B) SH

(C) SK

- Evaluate the following integral  $\int \frac{1}{x(x^5+1)} dx$ . 21.

  - (A)  $\log \left( \frac{x^5}{x^{5+1}} \right) + c$  (B)  $\frac{1}{5} \log \left( \frac{x^5}{x^{5+1}} \right) + c$
  - (C)  $\frac{1}{3}\log\left(\frac{x^5}{x^5+1}\right) + c$
- (D)  $\frac{1}{3} \log \left( \frac{x^5 + 1}{x^5} \right) + c$

22.	Balkrishna is Ritik's neighbour and his house is 200 meters away in the north-
	west direction from Ritik's house. Jayendra is Ritik's neighbour and his house
	is located 200 meters away in the south-west direction from Ritik's house.
	Girdhari is Jayendra's neighbour and he stays 200 meters away in the south-
	east direction from Jayendra's house. Ritik is Girdhari's neighbour and his
	house is located 200 meters away in north-east direction from Girdhari's
	house. Then where is the position of Ritik's house in relation to Balkrishna's?

(A) South-East

(B) South-West

(C) North

(D) North-East

23. If Ajay stands on his head with his face towards North, in which direction will his left hand point?

(A) North-East

(B) North

# (C) Castmplete pdf avait@levorth-Westudycaller App

24. One morning after sunrise, A and B were talking to each other face to face very closely at a crossing point. If B's shadow was exactly to the right of A, in which direction B was facing?

(A) East

(B) West

(C) North

(D) South

25. In a multi-storey building on one floor there are six flats in two rows facing East and West and they are allotted to A, B, C, D, E, and F. B gets an East facing flat, which is not next to D. F and D gets diagonally opposite flat. A gets a West facing flat and E gets an East facing flat. Whose flat is between A and F?

(A) B

(B) C

(Q) D

(D) F

		DI IX
26.	6. Six persons A, B, C	D, E and F are sitting in a row in a straight line. B
	between F & D. E is	between A & C. A does not sit next to F or D; C does n
		veen which of the following persons?
3	(A) B & E	(B) B & C
	(C) B & D	(D) B & A
27.		committee meeting, four girls Dipti, Aruna, Chandra
	Bindu and four boys	Gautam, Faneesh, Harendra, Eshaan are sitting in a circl
	around a table, facing	each other as under:
	(i) No two girls or	poys are sitting side by side.
	(ii) Chandra, who is	sitting between Gautam and Eshaan, is facing Dipti.
		en Dipti and Aruna and facing Gautam.
	(iv) Harendra is to the	e right of Bindu.
	Identify the person w	om Eshaan is facing.
	(A) Faneesh	(B) Bindu
	(C) Gautam	(D) Harendra
8.	If Kiran put her time-	piece on the table in such a way that at 6:00 PM, hour
	hand points to East. In	which direction the minute hand will be at 9:30 PM?
1.;	(A) South-East	(B) North-West
	(C) East	(D) West

Note: Read the following information carefully and answer the questions (29 to 30) given below:

Six persons B, D, C, M, J and K are split into groups of three each and are made to stand in two rows in such a way that a person in one row is exactly facing a person in the other row. M is not at the ends of any row and is to the right of J, who is facing C. K is to the left of D, who is facing M.

	rig	tht of J, who is facing C. K is to	the lef	t of D, who is facing M.
29.	Whi	ch of the following persons are	in the	same row?
	(A)	BDC	(B)	BMJ
	(C)	MJK	(D)	MJD
30.	Who	o is to the immediate left of B?		
	(A)		(B)	J
	(C)	D	(D)	K
31.	A is	B's Father. C is B's mother. D	is C's ble	Son, E is A's mother. Then how is in Studycaller App
	(A)	Uncle	(B)	Grandson
	(C)	Granddaughter	(D)	Father
32.	only	ating to a man in photograph, a son of my grandfather", then cograph?	woma how i	an said "The father of his brother is s that woman related to the man in
		Daughter Manual	(B)	Sister
		Mother	(D)	Aunty
33.	Char	ndresh is sitting left to Kuldee	p but sittin	ing in a row are awaiting their turn. on the right to Diksha, Reshma is g right to Gayatri but left to Diksha. n sitting in the middle must be:
	(A)	Chandresh	(B)	Diksha
	(C)	Gayatri	(D)	Priyanka
		· · · · · · · · · · · · · · · · · · ·		

If S is son of T, how S is related to P?  (A) Brother (B) Cousin (C) Maternal uncle  (D) Nephew  35. Sandhya is the daughter-in-law of Shailesh and sister-in-law of Rajan. Man is son of Shailesh and only brother of Rajan. Then, how Sandhya is related	L . T
35. Sandhya is the daughter-in-law of Shailesh and sister-in-law of Rajan. Man	
35. Sandhya is the daughter-in-law of Shailesh and sister-in-law of Rajan. Man	
Manak?	ak to
(A) Sister-in-law (B) Aunty	
(C) Cousin (D) Wife	
36. The Secondary data is collected by:	
(A) International source like World Bank.	
Bopperation petro available in Studycaller App	
(C) Interview method.	
(D) Mailed questionnaire method.	
37. Exit polls are an example of which method of collecting data?	
(A) Random sampling (B) Investigation	
(C) Census (D) Quota sampling	
A family consists of six members P, Q, R, S, T & U. There are two married couples. Q is a doctor and father of T; U is grandfather of R and is a contractor; S is grandmother of T and is a house-wife. There is one doctor, one contractor, one Professor, one house-wife and two students in the family. Find who is the husband of P.	
(A) T (B) S	
(C) R (D) Q 5-	
SPK 100c + 8	

39.	Wha	at is the range of a data set?	Mana. II	and the state of the property of the state of the
	(A)	The difference between the high	h <b>est</b> ar	nd lowest values in the data set
	(B)	The difference between the mea	an and	median of the data set
	(C)	The number of data points in th	e data	set
	(D)	The standard deviation of the d		
40.		es in which frequencies are co s interval in the series:		ously added corresponding to each
	(A)	Frequency This but an include	(B)	Cumulative frequency series
	(C)	Deviation	(D)	Mid value
41.	The	Ogive can boused for making	And the west of the same	able in Studycaller App
	(A)	short term projection	(B)	medium term projection
	(C)	long term projection	(D)	group frequency distribution
42.	Nun	nerical data presented in descrip	tive fo	rm are called:
	(A)	Classified presentation	(B)	Tabular presentation
	(C)	Textual presentation	(D)	Graphical presentation
43.	The	distribution of commuters com	ing to	a Metro station from early morning
	hou	rs to peak morning hours follows	s whic	h type of frequency curve?
	(A)	Bell shaped curve	(B)	J-shaped curve
	(C)	U-shaped curve	(D)	Mixed curve

44.	If the class intervals of certain data ar	re 10-14,	, 15-19, 20-24,	, then the first class
	boundaries is			

(A) 9.5-14.5

(B) 10-14

(C) 10-15

(D) 10.5-15.5

### 45. What is the purpose of stratified random sampling?

(A) To ensure that every individual in the population has an equal chance of being selected.

(B) To divide the population into subgroups and then randomly sample from each subgroup.

(C) To select individuals based on their availability and convenience.

(D) To select a fixed percentage of the population without any specific criteria.

46. The mean of a group X is 70 and the mean of group Y is 85. If the number of observations in group Y is five times that of group X, then the combined mean of both the groups is:

(A) 75

(B) 80

(C) 77.5

(D) 82.5

47. The Median of the following frequency distribution is:

x	0 – 10	10 - 20	20 – 30	30 – 40	40 – 50
f(x)	8	30	40	12	10

(A) 33

(B) 22.5

(C) 23

(D) 24

48. What type of data is most appropriate for representing using a Pie chart?

(A) Continuous data

(B) Categorical data

(C) Ordinal data

(D) Interval data

49.	For a	moderately-skewed distribution,	which of the following	relationship
	holds			

(A) 50

(B) 20

(C) 40

(D) 200

# (A) Quartile deviation availab(B) iRangetudycaller App

- (C) Standard deviation
- (D) Variance

- (A)  $\frac{1}{10}$  of Standard Deviation of original observation.
- (B)  $\frac{1}{100}$  of Standard Deviation of original observation.
- 100 times of Standard Deviation of original observation.
- (C) 10 times of Standard Deviation of original observation.

(A) 64.2

(B) 75.2

(C) 63.4

(D) 72.5

54. The quartile deviation of the distribution of the following data is:

x	2	3	4	5	6
f(x)	2	4	8	4	1

- (A) 0
- (C) 1/4

- (B) 1
- (D) 1/2



- 55. Which of the following pairs of events are mutually exclusive?
  - (A) A: The student studies in a school.

B: He studies Geography.

(B) A: Archna was born in India.

B: She is a fine lawyer.



B: She is a good folk dancer.

(D) A: Imran is under 15 years of age.

B: He is a voter of Delhi.



56. Which one holds correct for any two events A and B?

(A) P(A - B) = P(A) - P(B)

(B)  $P(A-B) = P(A) - P(A \cap B)$ 

(C)  $P(A-B) = P(B) - P(A \cap B)$ 

- (D)  $P(A-B) = P(B) + P(A \cap B)$
- 57. The Standard Deviation of the series 3, 6, 9, 12, 15 is:

(A) 4.24

(B) 6.36

(C) 4.12

(D) 3.28

A box contains shoe pairs of same pattern of different sizes numbered from 1 58. to 12. If a shoe pair is selected at random, what is the probability that the number on the shoe pair will be a multiple of 5 or 6?

(A) 0.33

(B) 0.25

(C) 0.20

(D) 0.375

Two cards are drawn at random from a pack of 52 cards. The probability of 59. getting either both the red cards or both Kings cards is:

(A) 0.2488

(B) 0.4288

(C) 0.8248

(D) 0.8428

The probability of success of three students in CA Foundation examination are 60. 1/5, 1/4 and 1/3 respectively. Find the probability that at least two students will get success.

(A) 2/5Complete pdf available in Studycaller App

(C) 1/6

(D) 1/5

61. If P(A) = 0.65 and P(B) = 0.15, then  $P(\overline{A}) + P(\overline{B})$  is:

(A) 1.5

(B) 1.2

(C) 0.8

(D) 0.35

Eight labourers are working at a construction site with the following wages for 62. each day of working (in ₹):

500, 620, 400, 700, 450, 560, 320, 450

If one of the workers is selected at random, what is the probability that his wage would be less than the average wage?

(A) 0.625

(B) 0.375

(C) 0.500

(D) 0.450

63.	If X and Y are 2 independent normal variables with mean as 10 and 12 and
	Standard Deviation (S.D.) as 3 and 4 respectively, then (X + Y) is normally
	distributed with:

(A) Mean = 22 and S.D. = 7

(B) Mean = 22 and S.D. = 25

(C) Mean = 22 and S.D. = 5

(D) Mean = 22 and S.D. = 49

64. The number of accidents in a year attributed to taxi drivers in a locality follows Poisson distribution with average 2. Out of 500 taxi drivers of that area, what is the number of drivers with at least 3 accidents in a year? (Given that e = 2.718)

(A) 162

(B) 180

(C) 201

(D) 190

65. In a class of 100 students, the mean marks was 50 with standard deviation 14.9. Assuming the distribution of marks to be normal, find the number of students who obtained more than 70% marks [at Z = 1.34, area = 0.4099].

(A) 10

(B) 9

(C) 8

(D) 7

66. If a random variable X follows Poisson distribution such that P(X = 1) = P(X = 2), then the mean of the distribution is:

(A) 2

(B) 1

(C) 0

(D) 1/2

67. The quartile deviation of a normal distribution with Mean of 10 and Standard Deviation of 4 is:

(A) 2.70

(B) 3.20

(C) 0.675

(D) 6.75

### CPK

		SPK			
72.	During a certain period the co the salary of a worker is also ra the raise in salary is effectively	aised from	index goes up f ₹ 330 to ₹ 500, th	rom 110 to 2 ten in the real	00 and terms,
	(A) Gain by ₹ 50	(B)	Gain by ₹ 75		
	(C) Loss by ₹ 90	Cath (D)	Loss by ₹ 50		
73.	Mhich one of the following measurement of price changes shift the base?	g test of s over a per	100 of years, wh	on it is dear	th the able to
	(A) Unit test	(B)	Time Reversal		
	(C) Circular test	(D)	Factor Reversal	test	
74.	The consumer price index for to average monthly wages of index the real wage?  (A) ₹ 2,800   ete pdf average pdf	ustrial Work	₹ 3 000		t administration
75	. Time Reversal test is satisfied l	by:			
75.	(A) Laspeyre's method but no	ot Fisher's n	nethod		
	(B) Paasche's method but not	Laspeyre's	method		
	(C) Fisher's method				
	- Land and Fi	sher's meth	od	20	
	(D) Laspeyre's method and Fr	Par			

- The value index is equal to: 76.
  - The total sum of the values of a given year multiplied by the sum of the values of the base year.
  - (B) The total sum of the values of a given year plus the sum of the values of the base year.
  - (C) The total sum of the values of a given year divided by the sum of the values of the base year.
  - The total sum of the values of a given year minus the sum of the values of the base year.

- 68. In case of "Insurance companies' profits" and "The number of claims they have to pay", there exists a:
  - (A) Positive correlation

(B) Negative correlation

(C) No correlation

(D) It cannot be predicted

- 69. The variance of two variables 'x' and 'y' are 16 and 25 and covariance between 'x' and 'y' is 18.5. Another two variables 'u' and 'v' are defined as u = (x 3)/2 and v = (y 2)/3, then coefficient of correlation between 'u' and 'v' is:
  - (A) 0.85

(B) 0.875

(C) 0.90

(D) 0.925

- 70. Which of the following statement is correct? Complete pdf available in Studycaller App
  - (A) Both regression coefficients must be less than unity.
  - (B) Regression coefficients are independent of origin and scale.
  - (C) The regression lines of two independent variables are parallel to each other.
  - (D) If two regression lines coincide with each other, there is no correlation between the variates.
- 71. Which one of the following statement is correct regarding limit of the two regression coefficients?
  - (A) No limit.
  - (B) Must be positive.
  - (C) One positive and the other negative.
  - (D) Product of the regression coefficients must be numerically less than unity.

77. The mean	proportional	between	$12x^{2}$	and 2	$27y^2 i$	s:
--------------	--------------	---------	-----------	-------	-----------	----

(A) 18xy

(B) 81xy

(C) 8xy

(D) 19.5xy

78.  $\log_2 \log_2 \log_4 256 + 2 \log_{\sqrt{2}} 2$  is equal to".

(A) 2

(B) 3

(C) 5

(D) 1

79. What is the value of  $\left(\frac{x^b}{x^c}\right)^{(b+c-a)} * \left(\frac{x^c}{x^a}\right)^{(c+a-b)} * \left(\frac{x^a}{x^b}\right)^{(a+b-c)}$ ?

(A)  $x^{abc}$ 

(B)  $x^{(a+b+c)}$ 

(C) -1

(D) 1

80. A number consists of two digits. The digits in the ten's place is 3 times the digit in the unit's place. If 54 is subtracted from the number, then the digits are reversed. The number is:

(A) 39 93

(B) 62 %

(C) 93 39

(D) 31 13

3x - 54 =

81. A person purchased 2 apples and 5 bananas at the cost of ₹ 90. Later he visited to another shop where shopkeeper told him that if you give me ₹ 50 and one banana, I can give you 3 apples. He agreed to the deal. What is the cost of one apple and one banana?

(A) (15, 10)

(B) (10, 15)

(C) (10, 20)

(D) (20, 10)

82. The ratio of income of A and B is 5: 4 and their expenditure is 3: 2. If at the end of year each saves ₹ 1,600, then the income of A is:

(A) ₹3,400

(B) ₹3,600

(C) ₹4,000

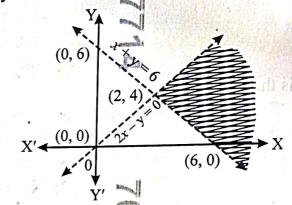
(D) ₹4,400

- 83. If one of the root of the cubic equation  $3x^3 5x^2 11x 3 = 0$  is  $-\frac{1}{3}$ , then other two roots are:
  - (A) 1 & 3

(B) -1 & 3

(C) 1 & -3

- (D) -1 & -3
- 84. The shaded area is represented by which of the following option?
  - (A) x + y > 6; 2x y > 0; x > 0
  - (B) x + y < 6; 2x y > 0; x < 0
  - (C) x + y > 6; 2x y < 0; x > 0
  - (D) x + y > 6; 2x y > 0; x < 0



85. A dietician recommends mixture of two kinds of foods to a person so that mixture contains at least 45 units of earbs, 25 units of protein, 15 units of fat and 15 units of fibre. The above contents of nutrients are available in the foods as below:

	Carbs	Protein	Fat	Fibre
Food-1	20	5	3	2
Food-2	10	2	4	5

- If 'x' units of food-1 is mixed with 'y' units of food-2, how dietician recommendation can be expressed?
- (A)  $20x + 10y \le 45$ ;  $5x + 2y \ge 25$ ;  $3x + 4y \le 15$ ;  $2x + 5y \ge 15$ ;  $x \ge 0$ ;  $y \ge 0$
- (B)  $20x + 10y \le 25$ ;  $5x + 2y \ge 45$ ;  $3x + 4y \le 15$ ;  $2x + 5y \ge 15$ ;  $x \ge 0$ ;  $y \ge 0$
- (C)  $20x + 10y \ge 45$ ;  $5x + 2y \ge 25$ ;  $3x + 4y \ge 15$ ;  $2x + 5y \ge 15$ ;  $x \ge 0$ ;  $y \ge 0$
- (D)  $20x + 10y \le 45$ ;  $5x + 2y \le 25$ ;  $3x + 4y \le 15$ ;  $2x + 5y \le 15$ ;  $x \ge 0$ ;  $y \ge 0$
- 86. If one of the root of the equation  $x^2 3x + k = 0$  is 1, then the value of 'k' is:
  - (A) 2

(B) 1

(C) -2

(D) -1

# (21) SPK

37.	The for 6	compound interest of months is:	on ₹ 40,000 at 129	% per annum compounded quarterly			
	(A)	₹ 2,643	(B)	₹ 2,463			
	(C)	₹ 2,364	<b>有一种的一种的一种的一种的一种的一种的一种的一种的一种的一种的一种的一种的一种的一</b>	₹ 2,436			
38.	inter	certain rate of interest and simple interest per annum is	est on ₹ 3,00,000	e difference between the compound for two years is ₹ 480, then the rate			
	(A)	2%	(B)	4%			
	(C)	6%		8%			
89.	on i		ning of that year. I	year at the rate of 10% per annum, if the present value of the machine is to was:			
	(A)	₹ 94,710	(B)	₹ 80,000			
	(C)	₹ 1,00,000 Complet	e pdf availa	₹75,087 able in Studycaller App			
90.	den	What is the effective rate of interest when principal amount of ₹ 50,000 deposited in a nationalized bank for one year, corresponding to a nominal rate of interest 6% per annum payable half yearly?					
	(A)	6.06% 3./-	(B)	6.07%			
		6.08%	(D)	6.09%			
91.	Vo	nto vicenta to accumu	late ₹ 4.91,300 in	her savings account after three years.			
71.	Th	illa wallis to accumu	ared by bank is $6\frac{1}{4}$	% per annum compounded annually.			
	Inc	e rate of interest offe	ald she invest toda	y to achieve her target amount?			
			(B)	₹ 4,37,500			
	(A)	) ₹ 4,09,600 ) ₹ 46,900		₹ 49,600			
			n late				
92	. Th	e sum required to e	arn a monthly int	erest of ₹ 1,200 at 18% per annum			
	sir	nple interest is:		0			
	(A	) ₹ 50,000	(B)	₹ 60,000			
	(Ĉ	<b>₹ 80,000</b>	(D)	₹ 66,000			
19.			CDI				

93. The Earning Per Share (EPS) of a company for five years is given below:

Year	2019	2020	2021	2022	2023
EPS	40	25	40	60	90

Calculate the Compounded Annual Growth Rate (CAGR) of EPS.

(A) 24.47%

(B) 23.47%

(C) 22.47%

(D) 21.47%

94. In an account paying interest @ 9% per year compounded monthly, ₹ 200 is invested at the end of each month. What is the future value of this annuity after 10<sup>th</sup> payment?

{Where  $(1.0075)^{10} = 1.0775$ }

- (A) Complete pdf available in Studycaller App
- (C) ₹2,044
- (D) ₹ 2,155

95. What is the present value of ₹ 1,000 to be received after two years compounded annually at 10% interest rate?

(A) ₹800

(B) ₹826

(C) ₹836

(D) ₹835

96. Mr. X makes a deposit of ₹ 12,000 in a bank where the amount doubles at compound interest in 5 years, then what will be the total amount he will have after twenty years?

(A) ₹96,000

(B) ₹ 1,20,000

(C) ₹ 1,24,000

(D) ₹1,92,000

97. An investor intends to purchase a three year ₹ 1,000 par value bond having nominal interest rate of 10%. At what price the bond may be purchased now, if it matures at par and the investor requires a rate of return of 14%?

(A) ₹904

(B) ₹ 907.125

(C) ₹ 905.25

(D) ₹909

98. A loan of ₹ 16,550 is to be paid in three equal annual instalments at compound interest. The value of annual instalment, if the rate of interest is 10% per annum is:

(A) ₹ 6,655

(B) ₹ 1,243

(C) ₹ 6,565

(D) ₹ 1,343

99. A Perpetuity has a cash flow of ₹ 625 and a required rate of return of 8%. If the cash flow is expected to grow at a constant rate of 4% per year, then the intrinsic value of this perpetuity (present value of growing perpetuity) is:

(A) ₹ 15,625

(B) ₹ 13,000

(C) ₹ 14,250

(D) ₹ 16,667

100. What is the annual contribution required by an organization to accumulate ₹ 20,00,000 in ten years for the construction of a new manufacturing plant, utilizing a sinking fund with an annual interest rate of 6% compounded annually?

{Where A(10, 0.06) = 13.180785}

(A) ₹ 1,51,736.03

(B) ₹ 1,67,440.90

(C) ₹ 1,75,433.60

(D) ₹ 1,83,714.28

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