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## Huge score gap between AIR 1 from VSI & AIR 2 from others JAN MAY MAY 2019 002 2019 740 800 **GIRISH ASWANI AKSHAT GOYAL** AJAY AGARWAL CA FINAL CA INTERMEDIATI 56 Marks Higher than AIR-2 65 Marks Higher than AIR-2 17 Marks Higher than AIR-2





and the second in the

- 1. The Arithmetic Mean (A.M.) and mode of the data are 32 and 26, respectively, then find the median of the data.
  - (A) 12 (B) 30 (C) 6 (D) 29

Find out the mode from the following data :

2.

4.

100	, 110, 125,	225, 325,	125, 90, 80	0, 455,	375, 1	125		÷1	19.0
(A)	110			(B)	325	· · · · · · · · · · · · · · · · · · ·	्रिक स	12.18	en Grat
(C)	455			(D)	125				

3. Which one of the following is the absolute measure of dispersion for open ended distributions ?

- (A) Standard deviation (B) Range
- (C) Mean deviation (D) Quartile deviation
- If the mean of the following frequency distribution is 2.6, then the value of Y is

Marks (X) :	1	2	3	4	5
No. of Students (f) :	8	10	Y	2	4
(A) 6			(B	) 16	
(C) 26			(D	) 12	1.1.1

- 5. Which one of the following measures of central tendency is based on only fifty percent (50%) of the central values ?
  - (A) Harmonic Mean (B) Geometric Mean
  - (C) Median

(D) Mode

(4)

- 6. Two dice are thrown simultaneously. Find the probability that the sum of digits on the two dice would be 8 or more.
  - (A)  $\frac{5}{12}$  (B)  $\frac{5}{18}$ (C)  $\frac{5}{36}$  (D)  $\frac{7}{12}$

7.

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3

A number is selected from the first 20 natural numbers. Find the probability that it would be divisible by 3 or 7.

- (A)  $\frac{12}{37}$  (B)  $\frac{7}{20}$ (C)  $\frac{24}{67}$  (D)  $\frac{8}{20}$
- 8. A father had three sons namely, Kailash, Harish and Prakash. All are above 65 years in age. Prakash happens to be the eldest while Kailash as youngest. As per the health history, it is estimated that the probability that Kailash survives another 5 years is <sup>4</sup>/<sub>5</sub>, Harish survives another 5 years is <sup>3</sup>/<sub>5</sub> and Prakash survives another 5 years is <sup>1</sup>/<sub>2</sub>. The probabilities that Kailash and Harish survive another 5 years is 0.46, Harish and Prakash survive another 5 years is 0.32 and Kailash and Prakash survive another 5 years is 0.46. The probability that all three sons survive another 5 years is 0.26. What shall be the probability that at least one of them survives another 5 years?
  (A) 0.72
  - (C)  $\frac{7}{10}$  (D)  $\frac{9}{10}$

NBD(H)

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9. In a leap year, what is the probability that there will be 53 Sundays?

(A) $\frac{1}{7}$	(B) $\frac{.53}{.365}$
(C) $\frac{3}{7}$	(D) <sup>2</sup> / <sub>7</sub>

10. Poisson probability distribution is appropriately applied in

- (A) The distribution of passing of students in university examinations.
- (B) The height of students in the university.
- (C) Tossing of a coin hundred times.
- (D) Number of deaths by a rare disease.
- 11. In a class, there are 15 boys and 10 girls. Three students are selected at random. The probability that 1 girl and 2 boys are selected is

(A) 
$$\frac{25}{17}$$
 (B)  $\frac{21}{46}$   
(C)  $\frac{1}{50}$  (D)  $\frac{3}{25}$ 

12. Two cards are drawn from a pack of 52 cards. The probability that one is a spade and one is a heart; is

(A)	<u>29</u> 34	14 S. 14 S.	(B) $\frac{3}{20}$
(C) ·	<u>47</u> 100		(D) $\frac{13}{102}$

13. A problem is given to 5 students P, Q, R, S and T. If the probability of solving the problem individually is <sup>1</sup>/<sub>2</sub>, <sup>1</sup>/<sub>3</sub>, <sup>2</sup>/<sub>3</sub>, <sup>1</sup>/<sub>5</sub> and <sup>1</sup>/<sub>6</sub> respectively, then find the probability that the problem is solved.
(A) 0.93
(B) 0.47
(C) 0.57
(D) 0.27

- 14. The correlation co-efficient between X and Y is 0.8. If we add a number 10 in the X variable and subtracted 20 from Y variable, then the new correlation co-efficient will be
  - (A) 0.6 (B) 0.4
  - (C) 0.9 (D) 0.8
- 15. When both the regression co-efficients are  $b_{xy} = 0.7$  and  $b_{yx} = 0.8$ , respectively, then correlation co-efficient between x and y is
  - (A) 0.56 (B) 0.75
  - (C) 0.28 (D) 0.87
- 16. If the points of inflexion of a normal curve are 6 and 14, then standard deviation of the distribution is

(A)	. 8	The fill the	地名美国	<b>(B)</b> 4
·(C)	9.17		in the f	(D) 32

17. What is the probability of making 3 corrected guesses in 5 True-False answer type questions ?

(A) 0.4156		<b>(B)</b>	0.3125
(C) 1.3888	1	(D)	0.5235

18. If 5% of the families in large population city do not use gas as a fuel, what will be the probability of selecting 10 families in a random sample of 100 families who do not use gas as a fuel ?

[Given that  $e^{-5} = 0.0067$ ]

Ф

- (A) Zero (B) 0.038
- (C) 0.018 (D) 0.048

19. If  $\Sigma p_n q_n = 249$ ,  $\Sigma p_0 q_0 = 150$ ,  $\Sigma p_n q_0 = 145$  and Paasche's Index Number = 150, then Fisher's Ideal Price Index Number is

(A)	126.9	(B) 75
(C)	120.62	(D) 171

20. From the following data, find out an Index number for 2022 taking 2021 as base (using simple aggregative method) :

Commodities	Price in 2021	Price in 2022
Α	80	120
В	220	200
C	300	400
(A) 120		(B) 100
(C) 108		(D) 190

For 9 college students group, the sum of squares of differences in ranks for 21. History and Hindi marks was found to be 62, then what is the value of rank correlation co-efficient?

(A)	0.48		· · · ·	(B) 1	1 20
(C)	0.52			(D) 0.8	7

- If r = 0.7, then co-efficient of non-determination is 22.
  - (B) 0.49 (A) 0.51
  - (D) 0.71 (C) Zero
- Given x = 2y + 4 and y = kx + 6 are the two lines of regression x on y and 23. y on x respectively. If the value of correlation co-efficient (r) is 0.5, then the value of k is

(A) $\frac{1}{4}$	(B) $\frac{1}{8}$
(C) $\frac{1}{3}$	(D) $\frac{1}{2}$
<b>,</b> , , , , , , , , , , , , , , , , , ,	NBD(H)

24. From the following chain base index numbers based on 2015, find out new chain base index number for the year 2022 by shifting the base year 2019.

Years :	2015	2016	2017	2018	2019	2020	2021	2022
Index No. :	100	105	95	85	120	110	130	150
(Base 2015)		a Ē						
(A) 180				<b>(B)</b> 1	25		1. 1. juli	
(C) 100				(D) 1	50			

25. The prices of a commodity in the years 2015 and 2020 were 50 and 60 respectively. Price relative of 2015 on 2020 is

(A)	110	식 전문을 얻을	(B)	100
(C)	83.33		(D)	120

26. Chain Index is equal to

 (A) link relative of previous year × chain index of current year 100
 (B) link relative of current year × chain index of current year 100
 (C) link relative of current year × chain index of previous year 100
 (D) link relative of previous year × chain index of previous year 100

(9)

- 27. If  $4^x = 5^y = 20^z$ , then z is equal to
  - (A)  $\frac{(x+y)}{xy}$  (B) xy(C)  $\frac{1}{xy}$  (D)  $\frac{xy}{(x+y)}$
- 28. If ₹ 58 is divided among 150 children such that each girl and each boy gets
  25 p and 50 p respectively. Then how many girls are there ?

(A)	54	(B) 52	
(C)	68	(D) 62	

- 29. A startup business was initiated by an entrepreneur by investing ₹ 1,40,000. His friend joined him after six months with an amount of ₹ 2,10,000. Thereafter an angel investor joined them with ₹ 2,80,000 after another six months. What should be the ratio of distribution of total earnings, three years since beginning of business among entrepreneur, his friend and angel investor ?
  - (A) 12:15:16
    (B) 7:6:10
    (C) 42:45:56
    (D) 2:3:4

30. The sum of three numbers is 98. If the ratio of the first to second number is2:3 and that of the second to third is 5:8, then the second number is

- (A) 30 (B) 20
- (C) 48 (D) 58

31. If  $\log \frac{a+b}{4} = \frac{1}{2}$  (log a + log b), then the value of  $\frac{a}{b} + \frac{b}{a}$  will be

- (A) 14 (B) 12
- (C) 16 (D) 8
  - NBD(H)

2)

# (10)

#### NBD(H)

32. On solving the inequalities  $6x + y \ge 18$ ,  $x + 4y \ge 12$ ,  $2x + y \ge 10$ ; which of the following are correct solutions ?

- (A) (3, 0), (0, 3), (4, 2) and (7, 6)
- (B) (0, 18), (12, 0), (4, 2) and (2, 6)
- (C) (5, 0), (0, 10), (2, 4) and (2, 6)
- (D) (0, 18), (12, 0), (4, 2) and (0, 7)

33. The longest side of a triangle is 2 times the shortest side and the third side is4 cm shorter than the longest side. If the perimeter of the triangle is at least61 cm, find the minimum length of the shortest side.

(A)	9 cm			(B) 7 cm
(C)	11 cm	- j. j		(D) 13 cm

34. Puru gets on the elevator at the 11<sup>th</sup> floor of a building and rides up at the rate of 57 floors per minute. At the same time, Ishu gets on an elevator at the 51<sup>st</sup> floor of the same building and rides down at the rate of 63 floors per minute. If they continue travelling at these rates, then at which floor will their paths cross ?

- (A) 19
   (B) 17

   (C) 27
   (D) 30
- 35. The quadratic equation  $2x^2 \sqrt{5}x + 1 = 0$  has (A) Two equal real roots (B) Two distinct real roots
  - (C) No real roots (D) More than two real roots

36. For equation  $x^3 - 6x^2 + 5x + 12 = 0$ , the product of two roots is 12. Which of the following is correct set of roots of the equation ?

2

(A) 1, 6, 2(B) 1, -3, -4(C) -1, 3, 4(D) -1, -6, -2NBD(H)

# (11)

#### NBD(H)

37. The compound interest on a certain sum for 2 years at 10% per annum is
 ₹ 525. The simple interest on the same sum for double the time at half the rate percent per annum is

(A)	₹ 500		N. A.	(B)	) ₹40	0
(C)	₹ 600			(D)	) ₹80	0

- 38. Find the future value of an investment of ₹ 7,000 compounded quarterly at 10% per annum for 3 years. [Given that (1.025)<sup>12</sup> = 1.34489]
  - (A) ₹ 7,435.73 (B) ₹ 9,414.20
  - (C) ₹ 7,941.42 (D) ₹ 8,000.00
- 39. A sum of ₹ 725 is lent in the beginning of a year at a certain rate of simple interest. After 8 months, a sum of ₹ 362.50 more is lent but at the rate twice the former. At the end of the year, ₹ 33.50 is earned as interest from both the loans. What was the original rate of interest ?
  - (A) 4.54%
    (B) 3.6%
    (C) 3.46%
    (D) 4.12%
- 40. There is 60% increase in amount in 6 years at simple interest. What will be the compound interest of ₹ 12,000 after three years at the same rate ?
  - (A) ₹ 3,120(B) ₹ 2,160(C) ₹ 3,972(D) ₹ 6,240
- **41.** The effective annual rate of interest corresponding to a nominal rate of 6% per annum payable half-yearly is

(A) 6.07%	的建筑和高品	(B) 6.06%
(C) 6.08%		(D) 6.09%

# (12) NBD(H)

# 42. Relationship between annual nominal rate of interest and annual effective rate of interest, if frequency of compounding is greater than one

- (A) Effective rate > Nominal rate
- (B) Effective rate < Nominal rate
- (C) Effective rate = Nominal rate
- (D) Effective rate = 0.9 times Nominal rate

43. Madhu invests ₹ 15,000 in a scheme and at the time of maturity the amount became ₹ 25,000. If CAGR for this investment is 8.88%, calculate the approximate number of years for which she has invested the amount.

[Given that	log(1.667)	() = 0.2219	and i	Og(1.089) = 0.0	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
		Sec. 18 26	1	$(\mathbf{D}) \in \mathbf{voors}$	19. 1

(A)	7.7 years	(D) 0 years
	5.5 years	(D) 7 years

44. Raju will pay instalments of ₹ 3,150 per month for the next 3 years towards his loan at an interest rate 12.4%, discounted monthly, what was the approximate amount of loan taken initially ?

[Given that  $(1.01033)^{36} = 1.448$ ]

(A) ₹ 9,742.29	<b>(B)</b>	₹ 13,683.60
(C) ₹ 94,345.17	· (D)	₹ 74,158.24

45. Shiv deposits ₹ 10,000 annually in a bank for 5 years, at 10 percent annual compounding interest rate. Calculate the approximate value of this series of deposits at the end of five years, if each deposit occurs at the beginning of the year.

(A) ₹ 67,156	(B)	₹ 61,050	
(C) ₹71,050	(D)	₹ 77,160	

46. If you deposit ₹ 4,000 into an account paying 6% annual interest compounded quarterly, how much approximate money will be in the account after 5 years ? [Given that (1.015)<sup>20</sup> = 1.34489]

U

(A)	₹ 4387.42	(B) ₹ 3387.42
(C)	₹ 5387.42	(D) ₹6387.42
	이 이 고말 혼자가 넣었	NBD(H)

# (13)

### NBD(H)

47. A project is expected to provide cash inflows as follows for 3 years :

 Year
 :
 1
 2
 3

 Cash Inflows (₹)
 :
 40,000
 50,000
 30,000

The company's cost of capital or required rate of return is 15%. What is the present value of cash inflows of the company ?

(A) ₹1,02,840	(B) ₹ 99,240
(C) ₹1,12,640	(D) ₹ 92,315

48. How much approximate amount should you save annually to accumulate ₹ 20,00,000 by the end of 12 years, if the saving earns an interest of 14 percent compound annually ?

[Given that  $(1.14)^{12} = 4.8179$ ]

(A) ₹ 5,23,	848	(B) ₹4,15,118
(C) ₹ 73,33	39	(D) ₹1,11,200

**49.** Dinesh received a cash bonus of ₹ 1,00,000 which he deposited in a bank which pays 10 percent interest compounded annually. How much approximate equal amount can Dinesh withdraw annually for a period of 10 years ?

[Given that  $(1.1)^{10} = 2.59374$ ](A)  $\notin$  38,554(B)  $\notin$  16,273(C)  $\notin$  62,745(D)  $\notin$  32,474

50. Find the approximate future value of an annuity due of ₹ 500 per quarter for 8 years and 9 months at the interest rate of 6% compounded quarterly.

11-11-11-11	in a wart of		5	10201	
ſGiven	that (	$1015)^{2}$	$j_{2} = 1$	.08391	
ICTIVEI	mary	1.010)	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		

(A) ₹	29,428.23	(B) ₹ 13,740.86
• • • •	56,971.95	(D) ₹22,796.66

#### NBD(H)

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# (14)

# NBD(H)

- 51. A team of 3 persons is to be constituted from a group of 2 men and 3 women. In how many ways can this be done if these teams would consist of 1 man and 2 women?
  - (A) 6 (C) 16 (B) 10 (D) 8

52. Find the sum of n terms of the A.P., whose  $n^{th}$  term is 5n + 1.

(A) $\frac{2n}{7}$	(B)	$\frac{n}{2}$
(C) $\frac{n(7+5n)}{2}$	(D)	$\frac{n(7+4n)}{2}$

53. The sum of first three terms of a G.P. is  $\frac{21}{2}$  and their product is 27. Which of the following is not a term of the G.P., if the numbers are positive ?

(A)	$\frac{2}{3}$	Λ.			(B)	3	
(C)	•				(D)	6	

54. In how many of distinct permutations of the letters in "MISSISSIPPI" when four I's do not come together ?

(A)	40320	(B)	34650
(C)	840	· (D)	33810

55. Out of 7 consonants and 4 vowels, how many words of 3 consonants and 2 vowels can be formed ?

(A)	1050	(B)	210
(C)	25200	(D)	21400
1.1.1.	as Will to 11	그는 그는 것 같은 것 못 해야 할 것을 올랐다. 말한 사람이 있는 것이 같아.	Sec. Press of the

56. Seema, Bharati, Priyanka, Khusboo and Lalita are 5 speakers. The number of ways in which Seema will always speak before Bharati shall be

	4! × 2!	(B)	24	
(C)	5!	(D)	12	
		NBD(F	I)	

(15)

If A = {1, 2, 3, 4}, B = {2, 4, 6, 8} and C = {3, 4, 5, 6}, the value of A - {B  $\cup$  C} 57. is

(A)  $\{2, 3, 4, 5\}$ (B)  $\{1, 2, 3\}$ (D) {0} (C)  $\{1\}$ 

The range of the function f(x) = 3x - 2 is **58**.

- (B)  $(-\infty, \infty)$ (A)  $R - \{3\}$ (D) (0, −∞) (C) (-∞, 0)
- Find the value of  $\lim_{x \to 4} \frac{(x^2 2x 8)}{(x 4)}$ . 59:
  - (B) 0 (A) 2 (D) 6 (C) 8

60. Insert 4 numbers between 2 and 22 such that the resulting sequence is an Arithmetic Progression (A.P.).

(B) 4, 8, 12, 16 (A) 5, 9, 13, 17 (D) 6, 10, 14, 18 (C) 4, 10, 15, 19

Find the sum of series  $1 + \frac{1}{2} + \frac{1}{4} + \dots$  upto 6 terms. 61.

(A)	<u>32</u> 63			<b>(B)</b>	A
(C)	<u>26</u> 53			(D)	<u>53</u> 26

Which of the following relations is transitive but not reflexive for the set **62.** in Alicentification of the  $S = \{3, 4, 6\}$ ? 29.25 (B)  $R = \{(3, 4), (4, 6), (3, 6)\}$ Section (A)  $R = \{(1, 2), (1, 3), (1, 4)\}$ (D)  $R = \{(3, 4), (4, 3)\}$ 

(C)  $R = \{(3, 3), (4, 4), (6, 6)\}$ 

NBD(H)

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# (16) **NBD(H)**

63. What is the differential function of  $\sqrt{x^2+2}$ ? (A)  $\frac{x}{\sqrt{x^2+2}} dx$  (B)  $x\sqrt{x^2+2} dx$ (C)  $\frac{x}{\sqrt{x^2-2}} dx$  (D)  $-\frac{x}{\sqrt{x^2+2}} dx$ 

64. Identify the next number in the following series :

1.25	2, 8, 26, 62, 122, 212,	<u></u>
(A)	338	(B) 332
(C)	356	(D) 362

65. Find the missing number in the given series :

	4, 18,, 100, 180, 294,	448	
(A)	52	(B)	48
(C)	56	(D)	64

**66.** Evaluate : 
$$\int_{2} (3x-2)^2 dx$$
.  
(A) 100  
(B) 104  
(C) 10  
(D) 52

67. Determine f(x), given that  $f'(x) = 12x^2 - 4x$  and f(-3) = 17(A)  $f(x) = 6x^2 - x^4 + 137$ (B)  $f(x) = 4x^3 - 2x^2 + 143$ (C)  $f(x) = 3x^4 - x^3 - 137$ (D)  $f(x) = 4x^3 - 2x^2 - 143$ 

68. Find  $\frac{dy}{dx}$ , where  $x = \frac{e^t + e^{-t}}{2}$  and  $y = \frac{e^t - e^{-t}}{2}$ (A)  $\frac{x}{y}$  (B)  $\frac{y}{x}$ (C)  $\frac{e^t}{e^{-t}}$  (D)  $\frac{1}{e^t}$ NBD(H)

# (17)

#### NBD(H)

69. A man is facing North-West. He turns 90° in the clockwise direction, then 180° in the anticlockwise direction and then another 90° in the same direction. Which direction is he facing now ?

(A)	South-West	<b>(B)</b>	South	
(C)	South-East	(D)	East	

70. Rajni walked 20 m towards the North. Then she turned right and walks 30 m. Then she turns right and walks 35 m. Then she turns left and walks 15 m. Finally she turns left and walks 15 m. In which direction and how many meters is she from the starting position ?

(A)	30 m East	(B)	15 m West	
(C)	30 m West	<b>(D)</b>	45 m East	

71. Find the odd man out from the following :

445, 221, 109, 46, 25, 11, 4

(A)	46	일으로 전에 걸렸다.	(B) 25
(C)	109		(D) 221

72. In a certain code "CH4IR" is written as "GL8MV". How is "1N5T4GR4M" is written in that code ?

- (A) 4P8W7JU8O (B) 4HFID8E8N
- (C) 5R9X8KV8Q (D) 5KF2E4GR4

73. A certain code "564" means "all the best", "736" means "best of luck" and "423" means "all is luck". Which of the following is the code for "luck"?

(A) 4 (B) 6

(C) 3

(D) 7

# (18)

# NBD(H)

- 74. Seven persons namely H, I, J, K, M, N, O are sitting in a straight line facing North direction. Total three number of persons are sitting between H and N. Both N and H sits at extreme sides. Total two number of persons sit between H and O. M is not an immediate neighbour of H or N. I sits third to the right of M. I and H both are not an immediate neighbours. M is also not an immediate neighbour of J. Who is sitting between H and M?
  - (A) 0 (B) J (C) I (D) K
- At a crossing, there was a direction pole, which was showing all the four 75. correct directions. But due to the wind, it turns in such a manner that now West pointer is showing South. Harish went in the wrong direction thinking that he was travelling East. In which direction he was actually travelling?

(A)	North			с. 		(B)	South	
(C)	West		in Si inter		•	(D)	East	

- Two cars start from the opposite places on a highway, 150 km apart. First car 76. runs for 25 km and takes a right turn and then runs 15 km. It then turns left and then runs for another 25 km and then takes the direction back to reach the main road. In the mean time, due to minor break down the other car has run only 35 km along the main road. What would be the distance between two cars at this point?
  - (A) 75 km. (B) 65 km. (C) 80 km. (D) 85 km.
- Some boys are sitting in three rows all facing North such that A is in the 77. middle row. P is just to the right of A but in the same row. Q is just behind of P, while R is in the North of A. In which direction of R is Q?

(A) South-West (B) South

(C) North-East

Ô

(D) South-East

(19)

- 78. Six friends P, Q, R, S, T and U are sitting around the hexagonal table each at one corner and are facing the centre of the hexagonal. P is second to the left of U. Q is neighbour of R and S. T is second to the left of S. Which one is sitting opposite to P ?
  - (A) Q (B) R
  - (C) T (D) S
- 79. A, B, C, D and E are sitting on a bench. A is sitting next to B, C is sitting next to D, D is not sitting with E who is on the left end of the bench. C is on the second position from the right. A is to the right of B and E. A and C are sitting together. In what position A is sitting ?
  - (A) Between B and C (B) Between B and D
  - (C) Between E and D (D) Between C and E
  - 80. In a class, there are seven students (including boys and girls) A, B, C, D, E, F and G. They sit on three benches I, II and III, such that atleast two students on each bench and atleast one girl on each bench. C who is a girl student, does not sit with A, E and D. F the boy student sits with only B. A sits on the bench I with his best friends. G sits on the bench III. E is the brother of C.

Which of the following is the group of girls?

- (A) BFC (B) BCG
- (C) BCD (D) CDF
- 81. Five boys A, B, C, D and E are sitting in a row. A is to the right of B and E is to the left of B but to the right of C. A is to the left of D. Who is second from the left end ?
  - (A) A (B) D
  - (C) B <
    - NBD(H)

•

Ŷ

(20)

82	ma	whom is 1 is	a boy. Q and F of the brothers	( are broth	amily consisting of two chillers and $Q$ is an engineer. E is tried to R, and Y is their or	and the state
	(A)	Brother		(B)	Father	1
	(C)	Nephew		(D)		
				i shiri		
83	and hus	band of H an	of A. P is the	daughter d	laughter of D, who is the fat of H, who is grandmother of v is P related to Q ?	her of G f K. D is
	(A)	Sister	Mar River	(B)		
	(C)	Daughter		(D)	Cousin	
			2013년 1917년 1917년			
84.			of T.	f B, "A * E nich of the f (B) (D)	" means A is brother of B, " ollowing is correct about G @ G is mother of P. P is brother of T.	A @ B" } T # P ?
85.	refer	red in the ph	The second of U	sh said, "H ny brother"	le is Aarav and he is the sor , how Rajesh is related to the	ı of the e Aarav
	1	Brother		<b>(B)</b>	Nephew	
	(C)	Father		(D)	Maternal Uncle	
86.	Study		ng information			
	•	A3P means	A is the mothe	r of P.		
	· sin .	A4P means	A is the brothe	r of P.		
	•	A9P means	A is the husbar	nd of P.		
	•	A5P means	A is the daugh	ter of P.		
	Whick	h of the follo	wing means the	hat K is the	mother-in-law of M?	
	<b>(A)</b> ]	M9N5K3J	· · · · · ·	(B)	M9N3K4J	
	(C)	K5J9M3N			K3J9N4M	
۲. ر	4. X	and the second		NBD(H)		
			dia an'			

#### . NBD(H)

87. The following data relate to the wages of a group of workers :

Wages (in ₹) :	Below 100	Below 200	Below 300	Below 400
No. of workers :	15	38	65	90

How many workers got wages more than ₹ 300 ?

(A)	65	1	in she in She ƙasar	(B) 25
(C)	90		$\gamma \gamma t_{s}$	(D) 27

- 88. The mode of a continuous frequency distribution can be determined graphically from
  - (A) By using frequency polygon
  - (B) By using Histogram
  - (C) By using ogive
  - (D) By using frequency curve
- **89.** Frequency density corresponding to a class interval for the continuous frequency distribution, is the ratio of
  - (A) class frequency to the class length
  - (B) class frequency to the total frequency
  - (C) class length to the class frequency
  - (D) class frequency to the cumulative frequency
- **90.** The curve obtained by joining the points, whose X co-ordinates are the upper limits of the class intervals and Y co-ordinates are corresponding cumulative frequencies, is called
  - (A) Histogram (B) Ogive
  - (C) Frequency polygon

(D) Frequency curve NBD(H)

# (22)

#### NBD(H)

- 91. A frequency curve which starts with a minimum frequency and then gradually reaches its maximum frequency at the other extremity is known as
  - (A) Mixed curve (B) Bell shaped curve
  - (C) U-shaped curve (D) J-shaped curve
- 92. The law of statistical regularity says that \_
  - (A) A large sample drawn at random from the population would possess the characteristics of the population.
  - (B) Sample drawn from the population under discussion possesses the characteristics of population.
  - (C) A large sample drawn at random from the population would possess the characteristics of the population on an average.
  - (D) An optimum level of efficiency can be attained at a minimum cost.
- 93. A population comprises 5 members. The number of possible samples of size 2, that can be drawn from it with replacement is
  - (A) 15 (B) 100
  - (C) 125 (D) 25

94. Which of the following statements about simple random sampling is NOT true ?

- (A) In simple random sampling with replacement, each selected unit is replaced to the population before the next unit is drawn.
- (B) Simple random sampling ensures that each unit in the population has an equal chance of being selected.
- (C) Simple random sampling is highly effective when the population is very large and heterogeneous.

(D) In a simple random sampling without replacement, a unit is selected, it will never be selected again.

# (23)

## NBD(H)

(2	A) Mean deviation	n (B)	Standard deviation
((	C) Range	(D)	Concurrent deviation method
	신하는 영상		상태는 이 것은 가슴이 있는 것이다.

- (A) 15 (B) 20
- (C) 4.67 (D) Zero

97. The monthly profit/loss for six months of the firm is as under :

Months :	January	February	March	April	May	June
Profit/loss (in ₹) :	1,000	900	0	-200	-400	2,000
The co-efficient ran (A) 150	ge of the	above data (B	1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1		in (pr N	
(C) 33.33	Second Starting	ſĽ	) 55.55			Sec.

98. In tabulation, source of data, if any, is shown in the

(A) Body	(B) Footnote
(C) Stub	(D) Caption

99. A helicopter flies from A to B at the rate of 500 km/hr. and comes back at the rate 700 km/hr. The average speed of the helicopter is

(A) 583.33 km/hr.	(B)	600 km/hr.
(C) $100\sqrt{35}$ km/hr.	(D)	620 km/hr.

100. If Arithmetic Mean (A.M.) and Geometric Mean (G.M.) of two numbers are 6.50 and 6 respectively, then the two numbers are

(A)	9 and 4	<b>(B)</b>	6 and 7
15 3 9	10 and 3	(D)	8 and 5



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