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Quantitative Aptitude

1. If $f(x) = kx^2$, $0 \le x \le 1$ is a probability density function of a random variable x, then the value of k is ———.

(A) 0 (B) 3
(C) $\frac{1}{3}$ (D) 2 (B)

2. The mean of 10 observations is 15. If one observation 12 is replaced by 22, what will be the new mean?

(A) 16 (B) 14
(C) 17 (D) 18 (A)

3. Which of the followings is a property of Arithmetic Mean?

(A) Sum of deviations from Arithmetic Mean is always positive.
(B) Arithmetic Mean is not affected by extreme values.
(C) Sum of deviations from Arithmetic Mean is always zero. (C)
(D) Arithmetic Mean cannot be calculated for grouped data.

4. The probability of getting pass in an examination is $\frac{x}{3}$. If the probability of getting fail is $\frac{2}{3}$, then the value of x is ———.

(A) 2 (B) 3
(C) 1 (D) 0 (C)

5. Two dice are rolled. What will be the probability that one dice have multiple of 3 and other dice have multiple of 2?

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

6. In a circular arrangement of 5 persons facing centre, A is sitting between B and C, D is sitting immediate right of C, and E is sitting immediate left of B. Who is sitting between D and B?

(A) A
(B) B
(C) C
(D) E

A
B C
C A B (D)
D E

7. Six persons A, B, C, D, E, and F are seated at a round table facing outside the centre but not necessarily in the same order. A sits at the immediate right of E. C sits after one person to the right of A. B sits beside A and F sits at the immediate right of D. How many persons are sitting between A & D?

(A) 1
(C) 3
(B) 2
(D) 4

E A
C B
D C

(B)

8. Five persons A, B, C, D & E are sitting on a bench. A is immediately to the left of C. E is immediately to the left of D and right of A. D is to the left of B. Which person is sitting in the middle of the bench?

(A) B
(C) A
(B) E
(D) D

B D E A C

(B)

9. Six friends A, B, C, D, E and F sit in a row facing north.

A and B have two persons between them.
C, who is at right end, is immediate right of A.
D is not neighbour of B.
E sits at left end.

Who sits third from left?

(A) F
(B) A
(C) D
(D) B

E B F D A C

(A)

XCE

10. The sum of infinite terms of the geometric series $1 - \frac{1}{5} + \frac{1}{25} - \frac{1}{125} + \cdots$ will be _____.

(A) 1
(B) $\frac{5}{6}$
(C) $\frac{6}{5}$
(D) $\frac{4}{5}$

(B)

11 If the sum of 4th and 8th term of an arithmetic progression (A.P.) is 120, then the 6th term of the A.P. is _____.

(A) 10
(B) 70
(C) 60
(D) 100

(C)

12 Find out the number of 5-digit even numbers that can be formed from digits 1 to 7 without repetition of any digit.

(A) 720
(B) 360
(C) 1080
(D) 840

(C)

13 If the first term of a geometric progression exceeds the second term by 4 and the sum of its terms till infinity is 100, then the common ratio is _____.

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

(B)

14 The sum of the first n terms of an arithmetic progression (A.P.) is $4n^2 + 3n$. The 10th term of the A.P. is _____.

(A) 77
(B) 83
(C) 81
(D) 79

(D)

20.48
5.8

15. If $x = 3 + \sqrt{8}$, then the value of $x + \frac{1}{x}$ is

$3+\sqrt{8}+\frac{1}{3+\sqrt{8}}$

$\frac{9+\sqrt{64}+3+\sqrt{8}}{3+\sqrt{8}}$

$\frac{12+\sqrt{72}}{3+\sqrt{8}}$ (B)

(A) $3\sqrt{8}$ (B) 6

(C) $\sqrt{8}$ (D) $2\sqrt{8}$

16. The value of $\frac{\log_3 16 \times \log_{\sqrt{2}} 3}{\log_8 3 \times \log_9 4}$ is _____.

$3 \cdot 4^{\frac{2}{3}} \times 2^{\frac{3}{2}}$

$2^{\frac{3}{2}} \times 1^{\frac{2}{3}}$

(A) 16 (B) 24

(C) $\frac{1}{16}$ (D) $\frac{1}{12}$

(B) 24

17. The product of two numbers is 7644 and their ratio is 12:13. Then, the smaller of two numbers is _____.

7644 : 84 × ?

84 · 91

(A) 91 (B) 84

(C) 82 (D) 90

(B)

18. The simplified value of $\sqrt[4]{a^{6b}x^4}\ \sqrt{(a^3x^{-4})^{-b}}$ will be _____.

(A) x^{1+2b} (B) x^{2b}

(C) 1 (D) $a^{\frac{3}{2}b}x^b$

(A)

19. If $a:b = 3:4$, then the value of $\frac{2a+3b}{3a+2b}$ is

$\frac{2(3)+3(4)}{3(3)+2(4)}$

$\frac{6+12}{9+8}$ (A)

(A) 18/17 (B) 17/18

(C) 6/7 (D) 7/6

20. A bag contains 5 red, 4 blue, and 3 green balls. Two balls are drawn at random without replacement. What is the probability that both balls are of different colours?

(A) $\frac{45}{66}$

(B) $\frac{47}{66}$

(C) $\frac{47}{132}$

(D) $\frac{45}{132}$

(B)

21. In a Shooting competition, A hit the target 6 out of 13 shots, and B hit 8 out of 11 shots. If they both try once, what is the probability that the target would be hit at least once?

(A) $\frac{21}{143}$

(B) $\frac{56}{143}$

(C) $\frac{74}{143}$

(D) $\frac{122}{143}$

(D)

22. A card is drawn at random from a well-shuffled deck of 52 cards. What is the probability that the card drawn is either a King or a Heart?

(A) $\frac{13}{52}$

(B) $\frac{17}{52}$

(C) $\frac{4}{13}$

(D) $\frac{15}{52}$

(C)

23. If the standard deviation of a Poisson distribution is 3, then $P(X=0)$ is _____.

(A) e^{-6}

(B) e^{-3}

(C) e^{-9}

(D) e^{-1}

(C)

24. Interview method is used for collection of _____.

(A) Primary data
(B) Secondary data
(C) Discrete data
(D) Continuous data

(B)

25. Q's mother is the sister of P and daughter of S. A is the son of P and Brother of H. G is the father of H. How is G related to S?

(A) Nephew
(B) Son-in-law
(C) Grandfather
(D) Father-in-law

(B)

26. A is brother of B. P is the sister of Q. B is the son of P. How is A related to P?

(A) Brother
(B) Son
(C) Father
(D) Uncle

(B)

27. Sharma points to a girl and says "She is the mother of my son's wife's daughter". What is the relation of the girl with Sharma?

(A) Mother
(B) Daughter
(C) Sister
(D) Daughter-in-law

(D)

28. P is the sister of Q. R is the mother of Q. S is the father of C. R is the sister of S. T is the mother of S. What is the relation of P with T?

(A) P is Mother of T
(B) T is P's Grand Mother
(C) P is Sister of T
(D) T is Brother of P

(B)

29. Dr. Madhu said, "The engineer who is my brother is the son of the only Professor in our family." If the Professor is Mr. Murli, how is Mr. Murli related to Dr. Madhu?

(A) Uncle
(B) Father
(C) Brother
(D) Cousin

(B)

30. Evaluate $\lim_{x \to \infty} \frac{x^2 + 2x + 2}{3x^2 + x + 1}$.

(A) $\frac{1}{3}$ (B) $\frac{2}{3}$

(C) $\frac{3}{8}$ (D) 2

(A)

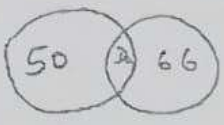
31. Let the function $f : R \to R$ is defined by $f(x) = x^2 + 3$, then $f^{-1}(12)$ is

(A) $\sqrt{3}$ (B) 3

(C) 9 (D) 12

(C)

32. In a class, 50 students have expressed that they like Mathematics, while 66 students like Accountancy. Among these, 36 students like both Mathematics and Accountancy. Based on this information, determine how many students in the class like either Mathematics or Accountancy?



(A) 14 (B) 20

(C) 52 (D) 80

(D)

33. Relation on integers is defined by :

$aRb \Leftrightarrow a - b$ is divisible by 5.

This relation is _____.

(A) Reflexive only

(B) Symmetric only

(C) Equivalence relation

(D) Neither symmetric nor transitive

(C)

34. One experienced person does 10 units of work per day, while a fresher does 5 units of work per day. The employer wants to maintain at least 50 units of work per day. This situation can be expressed as _____

(A) $10x+5y>50$ $x\geq 0,\ y\leq 0$

(B) $10x+5y\leq 50$ $x\geq 0,\ y\geq 0$

(C) $10x+5y\geq 50$ $x\geq 0,\ y\geq 0$

(D) $10x+5y=50$ $x\geq 0,\ y\leq 0$

35. The system of equations

$$2x+y=10$$
$$4x+6y=36$$

has solution with $x=$ _____

(A) 2 (B) 3

(C) 5 (D) 6

36. If α & β are roots of the equations $x^2-2x-35=0$, where $(\alpha\geq\beta)$, then find the value of $\dfrac{(\alpha-\beta)^2}{(\alpha+\beta)^2}$.

(A) 18 (B) 24

(C) 32 (D) 36

37. The set of inequalities $2x+3y\leq 9$, $5x-y>3$ has _____ region.

(A) Unbounded solution (B) Bounded solution

(C) No solution (D) Exactly a point solution

38. The feasible region formed by linear inequalities is always a _____ region.

(A) Circular (B) Concave

(C) Convex (D) Irregular

XCE

39. If $2x+3y+2=0$ is the regression equation of x on y and the arithmetic mean of y is -2, then arithmetic mean of x is _____.

(A) 4 (B) 6

(C) −2 (D) 2

40. The mean of a binomial distribution is 4 and the variance is 3.2. If $p<0.5$, find the value of p.

(A) 0.2 (B) 0.4

(C) 0.1 (D) 0.3

41. The mean and mean deviation of a normal distribution are 13.5 and 4.8 respectively. Then the third quartile of the normal distribution is _____.

(A) 6.25 (B) 17.55

(C) 4.05 (D) 1.75

42. In a binomial distribution, the probability of success is 0.7. The variance for $n=15$ is _____.

(A) 4.50 (B) 3.15

(C) 7.35 (D) 2.10

43. For a Binomial Distribution with mean = 4 and variance = 3, what are the values of n and p?

(A) n = 16, p = 0.25 (B) n = 12, p = 1/3

(C) n = 8, p = 0.5 (D) n = 16, p = 0.75

44. The covariance between two variables X and Y is 4. The standard deviation of X is 10 and the correlation coefficient between X and Y is 0.4. Find the standard deviation of Y.

(A) 1 (B) 2

(C) 3 (D) 4

10 - 20
20 - 30

45. Mutually Exclusive classification of class intervals _____.

(A) Excludes both the class limits
(B) Excludes the upper class limit but includes the lower class limit
(C) Includes the upper class limit but excludes the lower class limit
(D) Include both the class limits

(B)

46. Which of the following statement is true?

(A) Mean of the statistic is known as Standard Error
(B) Mean deviation of the statistic is known as Standard Error
(C) Standard deviation of the statistic is known as Standard Error
(D) Geometric mean of the statistic is known as Standard Error

(C)

47. Which one of the following parts is used to show the units of measurement?

(A) Body
(B) Caption
(C) Box-head
(D) Stub

(C)

48. Data that is classified according to an attribute or characteristic of the items under study is referred to as _____.

(A) Qualitative data
(B) Chronological data
(C) Geographical data
(D) Quantitative data

(A)

49. A researcher wants to study the effectiveness of a new treatment by surveying the most experienced doctors in a city. He selects 50 doctors based on their reputation and years of experience. Which type of sampling method is used in this survey?

(A) Simple Random Sampling
(B) Stratified Sampling
(C) Judgment Sampling
(D) Systematic Sampling

(C)

50. Find the next term in the series 11, 12, 14, 17, 22, 30, _____.

(A) 42
(B) 43
(C) 38
(D) 41

(B)

51. For a given Revenue function $R(x) = 100x - 2x^2$, the maximum revenue occurs at $x =$ _____.

(A) 20
(B) 25
(C) 30
(D) 50

(B)

52. If $x^y = y^x$, then $\frac{dy}{dx} =$ _____.

(A) $\frac{y(x\log y - y)}{x(y\log x - x)}$
(B) $\frac{y(x\log y + y)}{x(y\log x - x)}$
(C) $\frac{y(x\log y - y)}{x(y\log x + x)}$
(D) $\frac{x(x\log y - y)}{y(y\log x - x)}$

(C)

53. If $x(m) = am^2$, $y(m) = a/m^2$, then find the value of $\frac{dy}{dx}$.

(A) $\frac{1}{m^2}$
(B) $\frac{-1}{m^2}$
(C) $\frac{1}{m^4}$
(D) $\frac{-1}{m^4}$

(D)

54. Calculate the integral $\int \frac{x^{25}}{x^{26}}dx$.

(A) $\log x + C$
(B) $\log x$
(C) C
(D) $2\log x$

(A)

55. Ravi deposits some amount in bank for $5\frac{1}{2}$ years at the simple interest rate of 7% per annum. Ravi receives ₹ 66,480 at the end of term. Compute the amount of initial deposit by Ravi in the Bank.

(A) ₹ 48,000
(B) ₹ 50,000
(C) ₹ 45,000
(D) ₹ 51,000

(A)

56. The future value of an annuity of ₹ 2000 made annually for 8 years at interest rate of 14% per annum, compound annually is _____. (Given that $(1.14)^8 = 2.8526$)

(A) ₹ 26,465.71
(B) ₹ 26,646.57
(C) ₹ 20,000.55
(D) ₹ 18,564.52

(A)

57. The simple interest at the rate of p% per annum for p years will be ₹ p. Then, the principal is _____.

(A) ₹ p
(B) ₹ $100\,p$
(C) ₹ $\frac{100}{p^2}$
(D) ₹ $\frac{100}{p}$

(D)

58. The compound interest for ₹ 15,000 at 20% per annum for 2 years compounded semi-annually is _____.

(A) ₹ 9,661.50
(B) ₹ 6,961.50
(C) ₹ 9,691.50
(D) ₹ 6,696.15

(B)

59. Mr. Amit bought a car for ₹ 3,00,000 by making a down payment ₹ 50,000 and decided to pay equal annual payment for 10 years. How much would be each payment if the interest on unpaid amount is 18% per annum, compound annually? (Given that $P(10, 0.18) = 4.49409$)

(A) ₹ 55,628.61
(B) ₹ 55,266.86
(C) ₹ 55,555.28
(D) ₹ 50,000.00

(A)

60. When the two regression coefficients are given as $b_{xy} = 0.6$ and $b_{yx} = 0.9$, determine the value of the coefficient of correlation.

(A) 0.73 (B) 0.90
(C) 0.82 (D) 0.54 (A)

61. The Spearman's Rank correlation coefficient between Economics and Accountancy marks for a class student is $\frac{75}{99}$ and the sum of Square of differences in ranks for Economics and Accountancy marks is 40. What is the number of students in the class?

(A) 10 (B) 15
(C) 18 (D) 20 (A)

62. For a set of observations on variables x and y, the following summary statistics are given:

$$n = 5,\ \sum x = 10,\ \sum y = 25,\ \sum xy = 70,\ \sum x^2 = 30.$$

The regression equation of y on x is expressed as:

$$y = a + bx.$$

What is the value of the slope b?

(A) 0.5 (B) 1.0
(C) 1.5 (D) 2.0 (D)

63. The product of the price index and the quantity index are equal to the corresponding value index in _____.

(A) Time reversal test (B) Factor reversal test
(C) Circular test (D) Unit test (B)

64. The mean of five observations is 28. Among the five observations, three observations are 10, 23 and 62. The difference between the remaining two observations is 13. Then the remaining two observations are _____.

(A) 30 and 17
(B) 38 and 15
(C) 29 and 16
(D) 35 and 22

(C)

65. In a sample survey, sampling error mainly arises because:

(A) Enumerators record some responses incorrectly
(B) A part of the selected sample does not respond
(C) Only a subset of the population is observed instead of a complete census
(D) Some questions in the schedule are ambiguously worded

(C)

66. To add flexibility to the sampling process, the _____ is preferred.

(A) Simple Random Sampling
(B) Stratified Sampling
(C) Multi-stage Sampling
(D) Judgment Sampling

(C)

67. An ogive represents cumulative frequencies on a graph. By what other name is this graphical form commonly known?

(A) Frequency Histogram
(B) Cumulative Frequency Curve
(C) Frequency Polygon
(D) Area Diagram

(B)

68. If the mean $40, k, 6k, 4k^2, 8k - 4k^2$ is 20, then the value of k is _____.

(A) 15
(B) 10
(C) 8
(D) 4

(D)

69. The standard deviation is zero only if all the observations assumed by a variable are _____.

(A) different
(B) equal
(C) square of natural numbers
(D) square root of natural numbers

(B)

70. Find the next term of the series: 7, 8, 18, 57, 232, 1165, _____.

(A) 6996 ●
(B) 5840
(C) 4672
(D) 6990

(A)

71. In a certain Language, 'SUBJECT' is written as 'UWDLGEV' then 'MENTION' will be written as _____.

(A) OGKVPQP
(B) NOFUPOJ
(C) OGVPKJP
(D) OGPVKQP ●

(D)

72. If 'DOCTOR' is coded as 423527 and 'PATIENT' is coded as 8651905, then how is 'OPERATION' coded?

(A) 289765120
(B) 297681205
(C) 298765120
(D) 286712065

(A)

73. If the word 'CODE' is coded as 1357 and 'GAMER' is coded as 24678, what word does the number 84178 represent?

(A) ROVER
(B) RCEAR
(C) RACER
(D) RAECR

(C)

74. Ram started walking 2 kms towards the Sun in the morning. He turned right and walked 2 kms. Then, he turned right and walked 2 kms. Finally he turned left and walked 2 kms. In which direction is he walking now?

(A) South
(B) North ●
(C) East
(D) West

(A)

75. Find the effective interest rate, if nominal rate is 12% per annum, quarterly compounding.

(A) 12%
(B) 12.36%
(C) 12.55%
(D) 13%

(C)

76. Raju deposit ₹ 20,000 in a nationalized bank for 3 years at an annual interest rate of 8%, with the interest compounded every quarter. Find out how much interest Raju earns in the first year and the second year.

(A) ₹ 1,632 & ₹ 1,712
(B) ₹ 1,684 & ₹ 1,738
(C) ₹ 1,648 & ₹ 1,784
(D) ₹ 1,696 & ₹ 1,746

(C)

77. Rakesh requires ₹ 1,00,000 to buy a scooter after 4 years. What will be the approximate present value of ₹ 1,00,000 if the interest rate is 10% per annum?

(A) ₹ 67,800
(B) ₹ 68,300
(C) ₹ 70,935
(D) ₹ 71,430

(B)

78. If the difference between the annually compounded interest and simple interest on a certain sum of money at 8% per annum for 3 years is ₹ 788. Then the principle amount is _____.

(A) ₹ 39,175
(B) ₹ 39,475
(C) ₹ 39,975
(D) ₹ 40,475

(B)

79. What will be the approximate future value of an annuity of ₹ 1000 made annually for 5 years at interest rate of 7% per annum, compounded annually? (Given $(1.07)^5 = 1.40255$)

(A) ₹ 8,025
(B) ₹ 5,750
(C) ₹ 7,013
(D) ₹ 6,412

(B)

80. A machine depreciates at a rate of 10% per year on its beginning-of-year value. If it is sold for ₹ 6,000 after 9 years, what was its original purchase price?

(A) ₹ 14,587
(B) ₹ 15,488
(C) ₹ 14,875
(D) ₹ 15,888

(B)

81. What is the approximate real wage of a worker earning ₹ 12,500 nominal wage, when the cost of living index is 250 (base 100)?

(A) ₹ 3,125
(B) ₹ 4,500
(C) ₹ 5,000
(D) ₹ 6,250

(C)

82. If $\sum p_0 q_0 = 400$ and $\sum p_n q_0 = 720$ and Paasche's index number is 125, then the Fisher's index number is ———.

(A) 125
(B) 250
(C) 150
(D) 180

(C)

83. A price index with base 2000 shows:

Index for 2010: 140
Index for 2020: 210.

What is the index for 2010 when base is shifted to 2020?

(A) 57.14
(B) 66.67
(C) 75.00
(D) 133.33

(B)

84. Which formula correctly represents Fisher's Price Index?

(A) $\sqrt{[(\Sigma p_1 q_0 / \Sigma p_0 q_0) \times (\Sigma p_1 q_1 / \Sigma p_0 q_1)]} \times 100$
(B) $(\Sigma p_1 q_0 / \Sigma p_0 q_0) \times 100$
(C) $(\Sigma p_1 q_1 / \Sigma p_0 q_1) \times 100$
(D) $\sqrt{[(\Sigma p_0 q_1 / \Sigma p_1 q_0)]} \times 100$

(A)

85. Two groups of students have harmonic means of 50 and 30 for their test scores, with 10 students in the first group and 15 students in the second group. What will be the combined harmonic mean of the two groups?

(A) 15.35
(B) 35.71
(C) 38.11
(D) 42.50

(B)

86. The arithmetic mean (A.M.) of two positive numbers exceeds their harmonic mean by 30. If their A.M. is 45, Then, their geometric mean will be ———.

(A) $27\sqrt{2}$
(B) $25\sqrt{3}$
(C) 42
(D) $15\sqrt{3}$

(D)

87. If third quartile and first quartile are 64.5 and 22 respectively, then the quartile deviation is

(A) 42.5
(B) 21.25
(C) 36.25
(D) 30.5

(B)

88. The given frequency distribution is :

X	1	2	3	4	5	6	7
Y	5	9	12	17	14	10	6

The arithmetic mean of the Frequency distribution is ———.

(A) 2.99
(B) 3.06
(C) 4.10
(D) 4.71

(C)

89. What will be the mean deviation for the numbers {2, 4, 7, 8, 9, 12} from the mean?

(A) 2.14
(B) 2.33
(C) 2.55
(D) 2.67

(D)

90. Six students A, B, C, D, E and F are sitting in a bench facing north. C is sitting second to the right of F. A is sitting extreme left end of the bench. E is sitting second to the right of C. D is sitting immediate left of E. Who is sitting between F and C?

(A) A
(B) B
(C) E
(D) D

91. Puru started from his house towards west. After walking a distance of 25 m, he turned to the right and walked 10 m. He then again turned to the right and walked 15 m. After this, he is to turn right at 135° and to cover 30 m. In which direction should he go?

(A) West
(B) South
(C) South-West
(D) South-East

92. Vishal started from his house toward west. After walking a distance 30 meters, he turned towards right and walk 20 meters. He then turned left and moved a distance of 10 meters, turned to his left again and walked 40 meters. He now turn to left and walk 5 meters, finally he turns to left. In which direction he is walking now?

(A) North
(B) South
(C) East
(D) South West

93. Anil's house faces east. From the back-side of the house, he walks straight 50 meters, then turns to the right and walks 50 meters. Finally he turns towards left and stops after walking 25 meters. Now, in which direction is Anil from the starting point?

(A) South-East
(B) North-East
(C) South-West
(D) North-West

94. If A × B means A is to the south of B; A + B means A is to the north of B; A % B means A is to the east of B; A – B means A is to the west of B; then in P % Q + R – S, in which direction is S with respect to Q?

(A) South-West
(B) South-East
(C) North-East
(D) North-West

95. Four cards are drawn at random from a standard deck of 52 playing cards without replacement. In how many ways it can be done such that the selected cards consist of exactly one Jack and three Aces?

(A) 2304 (B) 2440
(C) 2260 (D) 2164

(Answer: 16)

96. A group consists of 7 men and 5 women. In how many ways can a group of 4 members be selected if the group has no women?

(A) 70 (B) 30
(C) 24 (D) 35

(D)

97. A loan of ₹ 1,00,000 is repaid in 3 equal annual instalments at 10% per annum interest, compounded annually. Find the amount of each instalment. (Given P(3,0.1) = 2.48685)

(A) ₹ 41,211 (B) ₹ 41,311
(C) ₹ 39,800 (D) ₹ 40,212

(D)

98. In how many years will ₹ 50,000 become ₹ 75,000 at 8% per annum compound interest? (Given log(1.5)= 0.1761 and log(1.08) = 0.0334)

(A) 4.8 years (B) 5.1 years
(C) 5.3 years (D) 5.6 years

(C)

99. If ₹ 50,000 grows to ₹ 80,525.5 in 5 years, the compound annual growth rate (CAGR) is _____.

(A) 9% (B) 10%
(C) 11% (D) 12%

(B)

100. In how many ways 5 Indians and 5 Americans people are seated around a table so that no two Indians are in adjacent positions?

(A) 3! × 4! (B) 3! × 5!
(C) 4! × 5! (D) 4! × 6!

(C)