

CA - FOUNDATION



QUANTITATIVE APTITUDE

SERIES - 2

SEPTEMBER - 2024

VOL - 32

Date : 18.08.2024

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CA FOUNDATION
"QUANTITATIVE APTITUDE"
SERIES - 2

Time : 2 Hours
(100% Course)
Vol - 32

Maximum Marks: 100
Date : 18.08.2024
Attempt : Sept. - 2024

Instruction:

1. Use HB Pencil to fill ovals for correct answer.
2. Each question carry one mark.
3. Negative marking .25 marks for each wrong answer.
4. No negative marking for unattempted questions.

1 If P is 25% less than Q and R is 20% higher than Q the Ratio of R and P

- (a) 5:8 (b) 8:5
(c) 5:3 (d) 3:5

2 If $a = \frac{\sqrt{6}+\sqrt{5}}{\sqrt{6}-\sqrt{5}}$ $b = \frac{\sqrt{6}-\sqrt{5}}{\sqrt{6}+\sqrt{5}}$ then the value of $= \frac{1}{a^2} + \frac{1}{b^2}$ is :

- (a) 486 (b) 484
(c) 482 (d) 500

3 If $(x + 5)$ is the mean proportional between $(x+2)$ and $(x+9)$ then the value of 'x' is

- (a) 4 (b) 5
(c) 7 (d) 8

4 If $abc = 2$ the value of $\frac{1}{1+a+2b^{-1}} + \frac{1}{1+\frac{b}{2}+c^{-1}} + \frac{1}{1+a^{-1}+c} =$

- (a) 1 (b) 2
(c) 1/2 (d) 3/4

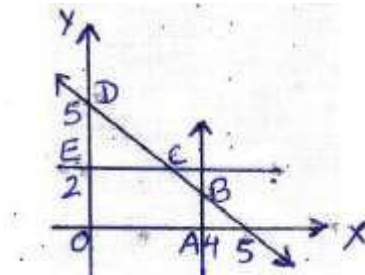
5 If $\log_a (ab) = x$, then $\log_b (ab)$ is -

- (a) $1/x$ (b) $\frac{x}{1+x}$
(c) $\frac{x}{x-1}$ (d) None of these

6 If $\frac{3}{x+y} + \frac{2}{x-y} = -1$ and $\frac{1}{x+y} - \frac{1}{x-y} = \frac{4}{3}$ then (x, y) is:

- (a) (2, 1) (b) (1, 2)
(c) (-1, 2) (d) (-2, 1)

- 7 The rational root of the equation $0 = 2p^3 - p^2 - 4p + 2$ is
 (a) -2 (b) 2
 (c) $\frac{1}{2}$ (d) $-\frac{1}{2}$
- 8 If the A.M between the roots of Quadratic equation is '8' and G.M is '5' then the equation is
 (a) $x^2 + 16x - 25 = 0$ (b) $x^2 - 16x + 25 = 0$
 (c) $x^2 - 16x - 5 = 0$ (d) None of these
- 9 If α and β are the roots of the equation $2x^2 + 5x + k = 0$, and $4(\alpha^2 + \beta^2 + \alpha\beta) = 23$, then which of the following is true?
 (a) $k^2 + 3k - 2 = 0$ (b) $k^2 - 2k + 3 = 0$
 (c) $k^2 - 2k - 3 = 0$ (d) $k^2 - 3k + 2 = 0$
- 10 Given conditions $x + y \geq 5$, $x + y \leq 5$, $0 \leq x \leq 4$ and $0 \leq y \leq 2$ then the common region under these conditions is



- (a) ECDE (b) EOABCE
 (c) Line segment CD (d) Line segment BC
- 11 In simple interest, a certain sum becomes Rs. 97,920 in 3 years, and Rs. 1,15,200 in 5 years, then the rate of interest is:
 (a) 10% (b) 11.2%
 (c) 12% (d) 13.6%
- 12 Bhavesh deposited Rs. 2 lakhs in a bank for 3 years at the rate of interest 8% p.a then the interest is:
 (a) 48,000 (b) 4,800
 (c) 480 (d) 48
- 13 A man invests an amount of Rs. 15860 in the names of his three sons A, B and C in such a way that they get the same amount of interest after 2, 3 and 4 years respectively. If the rate of interest is 5% then ratio of amount invested in the name of A,B and C is
 (a) 6:4:3 (b) 30:12:5
 (c) 3:4:6 (d) None of the above
- 14 A certain money doubles itself in 10 years when deposited on simple interest. It would triple itself in
 (a) 30 years (b) 20 years
 (c) 25 years (d) 15 years

- 15 The simple interest on a sum at 4% p.a. for two years is Rs. 80. Find the compound interest on the same for the same period.
- (a) Rs. 81.6 (b) Rs. 80.8
(c) Rs. 83.2 (d) Rs. 82.3
- 16 When 'i' denote the actual rate of interest in decimal, and n denote the number of conversion periods, the formula for computing the effective rate of interest E is given by.
- (a) $(1 + i)^n$ (b) $(1+i)^{n-1}$
(c) $1 - (1+i)^n$ (d) $(1+i)^{-n}$
- 17 A sum of Rs. X amounts to Rs. 27,900 in 3 years and to Rs. 41,850 in 6 years at a certain rate percent per annum, when the interest is compounded yearly. The value of x is
- (a) 16,080 (b) 18,600
(c) 18060 (d) 16800
- 18 The effective rate of return for 24% per annum convertible monthly is given as
- (a) 24% (b) 26.82%
(c) 18% (d) 24.24 %
- 19 Which of the following statements is true?
- (a) F.V of ordinary annuity < F.V of annuity due
(b) F.V of ordinary annuity > F.V of annuity due
(c) P.V of ordinary annuity > P.V of annuity due
(d) None of the these
- 20 Find the present value of Rs. 1,00,000 be required after 5 years if the rate of interest is 9% given that $(1.09)^5 = 1.5386$
- (a) 78,995.98 (b) 64,994.20
(c) 88,992.43 (d) 93,902.12
- 21 If the desired future value after 5 years with 18% interest rate is Rs. 1,50,000, then the present value (in Rs.) is (Given that $(1.18)^5 = 2.2877$)
- (a) 63,712 (b) 65,568
(c) 53,712 (d) 4117
- 22 Assuming that the discount rate is 7% p.a. how much would you pay to receive Rs. 200, growing at 5% annually, forever?
- (a) Rs. 2,500 (b) Rs. 5,000
(c) Rs. 7,500 (d) Rs. 10,000
- 23 If the cost of capital be 12% per annum., then the net present value (in nearest Rs.) from the given cash flow is given as

| Year | 0 | 1 | 2 | 3 |
|-------------------------------------|-------|----|----|----|
| Operating profit (in thousands Rs.) | (100) | 60 | 40 | 50 |

- (a) 3,1048 (b) 34185
(c) 51048 (d) 21047

- 24 The future value of annuity of Rs. 2,000 for 5 years at 5% compounded annually is given (in nearest Rs.) as
- (a) 51051 (b) 21021
(c) 11051 (d) 61254
- 25 The number of arrangements that can be formed from the letters of the word "ALLAHABAD":
- (a) 7560 (b) 3780
(c) 30240 (d) 15320
- 26 If ${}^n P_4 = 20$ ${}^n P_2$ were denotes the number of permutations n = _____
- (a) 4 (b) 2
(c) 5 (d) 7
- 27 If ${}^{1000} C_{98} = {}^{999} C_{97} + {}^x C_{901}$ then the value of x will be:
- (a) 999 (b) 998
(c) 997 (d) None of these
- 28 A fruit basket contains 7 apples, 6 bananas and 4 mangoes. How many selections of 3 fruits can be made so that all 3 are apples?
- (a) 120 ways (b) 35 ways
(c) 168 ways (d) 70 ways
- 29 The sum n terms of the series $1 + (1+3) + (1+3+5) + \dots$
- (a) $\frac{n(n+1)(2n+1)}{6}$ (b) $\frac{n(n+1)(2n+1)}{3}$
(c) $\frac{n(n+1)(n+2)}{3}$ (d) None of these
- 30 In G.P, if $a_3 = 8$ and $a_7 = \frac{128}{625}$ then $a_{10} =$ _____
- (a) $\frac{256}{78125}$ (b) $\frac{512}{78125}$
(c) $\frac{1024}{78125}$ (d) $\frac{1024}{15625}$
- 31 If the sum of three numbers in a geometric progression is 28. When 7,2 and 1 are subtracted from the first, second and the third numbers respectively, then the resulting numbers are in arithmetic progression. What is the sum of squares of the original three numbers?
- (a) 510 (b) 456
(c) 400 (d) 336
- 32 In a class of 35 students, 16 students play football and 24 students play cricket. Assume that each one play atleast one game, then number of students who play both the games is _____:
- (a) 5 (b) 11
(c) 12 (d) 17

- 33 Let $f: \mathbb{R} \Rightarrow \mathbb{R}$ be defined by
- $$\begin{cases} 2x & \text{for } x > 3 \\ x^2 & \text{for } 1 < x \leq 3 \\ 3x & \text{for } x \leq 1 \end{cases}$$
- The value of $f(-1) + f(2) + f(4)$ is
- (a) 9 (b) 14
(c) 5 (d) 6
- 34 If $f(x) = x^2 - 1$ and $g(x) = |2x+3|$, then $f \circ g(3) - g \circ f(-3) =$
- (a) 71 (b) 61
(c) 41 (d) 51
- 35 If $A = \{1,2,3\}$ then the relation $R = \{(1,1), (2,3), (2,2), (3,3), (1,2)\}$ on A is:
- (a) Reflexive (b) Symmetric
(c) Transitive (d) Equi-valence
- 36 If $f(x) = ax^2 + bx + c$ then $\lim_{h \rightarrow 0} \frac{f(x+h) - f(x)}{h}$ is equal 0:
- (a) $2x + b$ (b) $2x + 2b$
(c) $2ax + b$ (d) None of these
- 37 $f(x) = 2x - |x|$ is:
- (a) Undefined at $x = 0$ (b) Discontinuous at $x = 0$
(c) Continuous at $x = 0$ (d) None of these
- 38 $Y = x(x-1)(x-2)$ then $(dy/dx) =$
- (a) $3x^2 - 6x + 2$ (b) $-6x + 2$
(c) $3x^2 + 2$ (d) $x^2 - 2$
- 39 In a market there are 30 shops to allocate to people. If they allocate x shops then their monthly expenses, in rupees, is given by, $p(x) = 8x^2 - 400x + 1000$, then the number of shops should they allocate to minimize the expenses.
- (a) 0 (d) 30
(c) 25 (d) 10
- 40 The value of $\int_0^{1/2} \frac{dx}{\sqrt{3-2x}}$ is
- (a) 1 (b) $1 - \sqrt{3/2}$
(c) $\sqrt{3} - \sqrt{2}$ (d) $\sqrt{2} - \sqrt{3}$
- 41 What comes next in the series:
B2S, D3T, F5U, H7V, ?
- (a) J9W (b) J11W
(c) J13U (d) J11V
- 42 Find the missing value in the series; 51, 52, 60, 87, 151, _____ 492?
- (a) 195 (b) 276
(c) 317 (d) 420

- 43 In a series of letters, which one is the odd one out: BDFH, JLNP, RTVX, ZBDE?
- (a) BDFH (b) JLNP
(c) RTVX (d) ZBDE
- 44 In a certain code TEACHER is written as VGCEJGT, how is CHILDREN written in that code?
- (a) EJKNEGTP (b) EGKNFITP
(c) EJKNFGTO (d) EJKNFTGP
- 45 In a certain code INACTIVE is written as ANICTEVI, how is COMPUTER written in the same code?
- (a) PMOCRETU (b) ETUPMOCR
(c) UTEPMOCR (d) MOCPURET
- 46 Kanan started walking from A, 200 m towards North to reach B. Then he turned right and walks 300 m to reach C. Then he turns right and walks 350 m to reach D. Then he turns left and walks 150 m to reach E. Finally, he turns left and walks 150 m. he arrived at the point F. What is the distance between point A and F?
- (a) 450 m (b) 200 m
(c) 250 m (d) 300 m
- 47 Hari walks 2 kms to West, then turns and starts walking South-East. He walks 3 kms. Then he turns North and walks 5 kms. Then again, he turns East and walks 2 kms. Finally, he turns South and walks 6 kms. In which direction is starting point from end point?
- (a) South - West (b) South - East
(c) North - East (d) North - West
- 48 A person walks 1 km (kilometer) towards West and then he turns to South and Walks 5 km. Again, he turns to West and Walks 2 km. After this he turns to North and walks 9 km. How far is he from his starting point?
- (a) 3 km (b) 4 km
(c) 5 km (d) 7 km
- 49 A car starts from a point, runs 20 kms toward north, turns right and runs 35 kms, turn right again and runs. which is the direction now it is facing
- (a) North (b) South
(c) East (d) West
- 50 If Shyam sees the rising sun behind the tower and setting sun behind the Railway station from his house. What is the direction of tower from Railway station?
- (a) South (b) North
(c) West (d) East
- 51 Shyam's Mother said Shyam " My mother has son whose son is Ram". Shyam is related Ram as _____.
- (a) Uncle (b) Cousin
(c) Nephew (d) Grandfather

- 52 **A is B's sister, C is B's mother, D is C's father E is D's mother. How is A related to D?**
 (a) Grandmother (b) Grand Father
 (c) Daughter (d) Grand Daughter
- 53 **Raju is husband of Devi. Karan is father of Gopal, Arjun is a son of Shobha, Ashok is brother of Shobha, Karn is a father of Arjun, Karan is son-in-law of devi, then how is Raju is related to Arjun?**
 (a) Father (b) Uncle
 (c) Son-in-law (d) Grand Father
- 54 **Pointing towards a photograph Mrs. X says, "This man's son's sister is my mother-in-law. How is Mrs. X husband is related to a man in the photograph?**
 (a) Son (b) Grand Son
 (c) Brother (d) Daughter
- 55 **X, is a male introduces Y saying, He is the husband of the granddaughter of the father of my father. How is Y related to X?**
 (a) Brother (b) Father
 (c) Brother-in-law (d) Father-in-law
- 56 **Five players named as A, B, C, D and E are sitting on a bench, facing south, and are waiting to be interviewed by a selector. The person C is an immediate neighbor of both A and B. the person A is the fourth person from right end, if E is to right of B, then where is E sitting?**
 (a) Fifth from right end (b) Fourth from right end
 (c) Fifty from left end (d) Second from right end
- 57 **The persons named U, V, W, X, Y and Z are sitting along the circumference of a round table. They are facing the center of the round table. Given: X is the third left of Z and U is the second right of X; W is third to Y's right. Then V is sitting immediate left to**
 (a) V (b) U
 (c) W (d) X
- 58 **Eight friends A, B, C, D, E, F, and H are sitting around a circular table facing the Centre. A is Sitting two places to the right of B, who is sitting directly opposite D. C is sitting to the immediate left of B and to the immediate right of E. F, who is opposite to G, is not sitting next to A. Who is sitting to the immediate left of H?**
 (a) A (b) B
 (c) C (d) D
- 59 **5 persons are standing in a line. The 2 persons at the extreme ends are a professor and a businessman. An advocate is standing to the right of student. An author is to the left of the businessman. Counting from the Professor's end, The author is at which place?**
 (a) 2nd (b) 3rd
 (c) 4th (d) 5th

- 60 A, B, C, D, E and F are standing in a circle talking, facing inward, E is right of C, who is standing 3 places away from D. A is standing 2 seats away from F.
Which of the following has to be true?
- (a) A is standing opposite to C (b) A is standing next to E
(c) A is standing next to D (d) A is standing next to B

61 The frequency of visitor in an office is given below:

| Time | 9 AM - 11 AM | 11 AM - 1 PM | 1 PM - 3 PM | 3 PM - 5 PM |
|-----------|--------------|--------------|-------------|-------------|
| Frequency | 5 | 18 | 7 | 12 |

Find the cumulative frequency of visitors for the time 11 AM - 1 PM?

- (a) 5 (b) 23
(c) 18 (d) 30
- 62 In a Standard Normal distribution, then the value of the mean (μ) and standard deviation (σ) is:
- (a) $\mu = 0$ and $\sigma = 0$ (b) $\mu = 0$ and $\sigma = 1$
(c) $\mu = 1$ and $\sigma = 0$ (d) $\mu = 1$ and $\sigma = 1$
- 63 If the regression line of y on x and of x on y are given by $10x - 290 = -20y$ and $7y - 104 = -4x$. Then the arithmetic means of x and y are given by :-
- (a) 5, 12 (b) 7, 12
(c) 12, 5 (d) 5, 7
- 64 _____ may be defined as the ratio of covariance between the two variables to the product of the standard deviations of the two variables.
- (a) Scatter diagram (b) Karl Pearson's correlation coefficient
(c) Spearman's correlation coefficient (d) Coefficient of concurrent deviations
- 65 If mean of 5 observations $x + 1, x + 3, x + 5, x + 7$ and $x + 9$ is given 15, then the value of x will be:
- (a) 10 (b) 12
(c) 8 (d) 11
- 66 Consider the following data where class length is given as 5. Calculate the number of class intervals.
59, 68, 78, 57, 44, 73, 40, 60, 70, 47
- (a) 5 (b) 6
(c) 7 (d) 8
- 67 The mean of the first three terms is 17 and mean of next four terms is 21. Calculate the mean of seven terms.
- (a) 18.28 (b) 19.78
(c) 19.58 (d) 19.28

- 68 The mean of a set of 20 observations is 18.3. The mean is reduced by 0.6 when a new observation is added to the set. The new observation is:
 (a) 17.6 (b) 18.9
 (c) 5.7 (d) 24.6
- 69 If $P(A) = \frac{1}{2}$ and $P(B) = \frac{1}{3}$ and $P(A \cup B) = \frac{2}{3}$ then find $P(A \cap B)$
 (a) $\frac{1}{4}$ (b) $\frac{2}{3}$
 (c) $\frac{1}{6}$ (d) $\frac{1}{2}$
- 70 If six coins are tossed simultaneously. The probability of obtaining exactly two heads are.
 (a) 0.2343 (b) 0.9841
 (c) 0.1268 (d) 0.0156
- 71 A box contains 20 electrical bulbs out of which 4 are defective. Two bulbs are chosen at random from this box. The probability that at least one of them is defective.
 (a) $\frac{7}{19}$ (b) $\frac{4}{19}$
 (c) $\frac{12}{19}$ (d) $\frac{15}{19}$
- 72 If the coefficient of correlation is 0.8 and regression coefficient $b_{xy} = 0.32$ then what is the value of regression coefficient b_{yx} ?
 (a) 2 (b) 1
 (c) 0.52 (d) 0.48
- 73 If the Regression coefficient (r_{yx}) of y on x is greater than unity, then other Regression coefficient (r_{xy}) of x on y is:
 (a) Less than one (b) Greater than one
 (c) Equal to one (d) Equal to zero
- 74 If $4y - 6x = 18$ is regression line of y on x and coefficient of correlation between x and y is 0.8. What is the value of regression coefficient of x on y?
 (a) 0.2448 (b) 0.4267
 (c) 0.5733 (d) 0.7441
- 75 If the range of a data is 20 and its smallest value is 5, then what is the largest value of data is?
 (a) 20 (b) 25
 (c) 5 (d) 30
- 76 If 'x' and 'y' are independent normal variate with mean and Standard deviation μ_1, μ_2 and σ_1, σ_2 respectively, then for $z = x + y$ which also follows normal distribution mean and SD are:
 (a) Mean = $\mu_1 + \mu_2$, SD = $\sqrt{\sigma_1^2 + \sigma_2^2}$ (b) Mean = $(\mu_1 + \mu_2)/2$, SD = $\sqrt{(\sigma_1^2 + \sigma_2^2)} / 2$
 (c) Mean = $\mu_1 - \mu_2$, SD = $\sqrt{\sigma_1^2 - \sigma_2^2}$ (d) Mean = $(\mu_1 - \mu_2) / 2$, SD = $\sqrt{(\sigma_1^2 - \sigma_2^2)} / 2$

- 77 For a binomial distribution the mean and standard deviation are 10 and 3 respectively. Find the value of n.
- (a) 30 (b) 9
(c) 90 (d) 100
- 78 Which of the following measure of central tendency depends on the position of the observation?
- (a) Mean (b) Median
(c) Mode (d) Harmonic mean
- 79 Which of the following measure of central tendency will be unaffected if the lower and highest observations are removed?
- (a) Mean (b) Mode
(c) Median (d) Range
- 80 If there are two groups containing 40 and 30 observations and have arithmetic means as 50 and 60, then the combined arithmetic mean is:
- (a) 55.48 (b) 56.35
(c) 54.28 (d) 59.28
- 81 If Mean of a data set 22 and Median is 22.33, then the Mode is
- (a) 21 (b) 21.34
(c) 22.99 (d) 21.54
- 82 For the first 20 natural numbers, the standard deviation is:
- (a) 5.77 (b) 7.75
(c) 5.64 (d) 6.54
- 83 If Mean Deviation about Arithmetic Mean is 1.78 and Arithmetic Mean is 3.50 then coefficient of Mean Deviation about Arithmetic Mean is:
- (a) 50.85 (b) 44.33
(c) 52.65 (d) 51.85
- 84 The coefficient of the range of the data 7, 8, 4, 1, 9, 12, 18, 16, 94, 3, 5, -6 is _____
- (a) 133.6 (b) 163.3
(c) 166.3 (d) 113.6
- 85 The average of base year and current year is used in ____ index number.
- (a) Laspeyres's (b) Paasche's
(c) Fisher's ideal (d) Marshall – Edgeworth
- 86 Which index number formula does not satisfy the time reversal test?
- (a) Fisher's ideal index & Laspeyre's index
(b) Laspeyres's index & Passche's index
(c) Passche's index & Fisher's ideal index
(b) Laspeyre's index, Fisher's ideal index and Passche's index

- 87** If the pieces of all commodities in the base year are twice the values of respective commodities in the current year, then the Fisher's ideal index number is equal to:
- (a) 200 (b) 50
(c) 400 (b) 25
- 88** Which index number formula satisfies both the time reversal test and factor reversal tests?
- (a) Fisher's ideal index (b) Laspeyre's index
(c) Passche's index (b) Marshall-Edgeworth index
- 89** Which of the following is not a test of adequacy in the context of index numbers?
- (a) Unit test (b) Square test
(c) Circular test (b) Factor reversal test
- 90** Two frequency distribution are given to you. To compare them visually the best diagram to be drawn on same sheet is:
- (a) Pie (b) Histogram
(c) Frequency polygon (b) Bar chart
- 91** A less than ogive curve drawn by plotting
- (a) Less than cumulative frequency on the vertical axis
(b) More than cumulative frequency on the vertical axis
(c) Highest frequencies on vertical axis
(b) Lowest frequencies on vertical axis
- 92** The following set of data cannot be presented in a table.
- (a) The heights of students described in centimeters
(b) The weights of candidates expressed in kilograms
(c) The amount of rainfall opined as "medium:", "average", "heavy", etc.
(b) The number of bills per day cleared by and auditor in a month
- 93** An ogive is used to represent:
- (a) The frequency of each data point
(b) The number of data points falling below a specific value
(c) The proportion of data points falling below a specific value
(b) The relationship between two variables
- 94** A question in statistics is given to three students A, B and C. Their chances of solving the question are $\frac{1}{3}$, $\frac{1}{5}$ and $\frac{1}{7}$ respectively. The probability that the question would be solved is
- (a) $\frac{19}{35}$ (b) $\frac{16}{35}$
(c) $\frac{1}{105}$ (b) $\frac{104}{105}$

95 A random variable has the following probability distribution.

| | | | |
|---|---|----|----|
| X | 2 | 3 | 5 |
| P | K | 2K | 2K |

Find K.

- (a) $\frac{1}{3}$ (b) $\frac{2}{5}$
(c) $\frac{1}{5}$ (b) $\frac{2}{3}$

96 The following table gives the cumulative probability function of X:

| | | | | | | |
|------|------|------|-------|------|------|------|
| X | 0 | 1 | 2 | 3 | 4 | 5 |
| P(X) | 6/30 | 5/30 | 13/30 | 1/15 | 1/10 | 1/30 |

The expectation of X is _____

- (a) 1.8 (b) 1.7
(c) 1.5 (b) 1.6

97 The mean of Poisson distribution is 4. The probability of two successes is:

- (a) $\frac{8}{e^4}$ (b) $\frac{4}{e^4}$
(c) $\frac{16}{e^4}$ (b) $\frac{8}{e^2}$

98 A company produces 5 defective items out of 300 items. The probability distribution follows a:

- (a) Binomial distribution (b) Normal distribution
(c) Poisson distribution (b) Standard normal distribution

99 Which of the following is not a type of sampling?

- (a) Probability (b) non-probability
(c) Stand-alone (b) Mixed

100 Which sampling is based on the discretion of the sampler?

- (a) Systematic (b) Multi-stage
(c) Stratified (b) Purposive

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