

1. When mean is 3.57 and mode is 2.13 then the value of median is
 - a) 3.09
 - b) 5.01
 - c) 4.01
 - d) 3.05
2. Frequency curve is a limiting form of
 - a) Frequency polygon
 - b) Histogram
 - c) Both (a) and (b)
 - d) None of these
3. Tally marks determined
 - a) Class width
 - b) Class boundary
 - c) Class limit
 - d) Class frequency
4. The quickest method of collect primary data is
 - a) Personal interview
 - b) Indirect interview
 - c) Mailed questionnaire method
 - d) Telephonic interview
5. Annual income of a person is
 - a) An attribute
 - b) Discrete variable
 - c) A continuous variable
 - d) Both (b) and (c)
6. Which of the following is not a two- dimensional figure ?
 - a) Line diagram
 - b) Pie diagram
 - c) Square diagram
 - d) Rectangle diagram
7. Mode of the observation 2,5,8,4,3,4,4,5,2,4 and 4 is
 - a) 3
 - b) 2
 - c) 5
 - d) 4
8. Three cards are drawn with replacement from a well shuffled deck of 52 cards. What is the probability that the first card is an ace, second is a king and third is a queen ?
 - a) $\frac{1}{2179}$
 - b) $\frac{1}{2197}$
 - c) $\frac{1}{52}$
 - d) $\frac{1}{2971}$
9. A bag contains 5 red balls, 4 blue balls and M green balls. If the random probability of picking two green balls is $\frac{1}{7}$ what is the number of green balls (m) ?
 - a) 5
 - b) 7

- c) 6
 - d) 8
10. A random variable X has the following probability distribution

X	0	1	2	3
P(X)	0	2K	3k	K

Then , P (x < 3) would be

- a) $\frac{1}{6}$
 - b) $\frac{1}{3}$
 - c) $\frac{1}{2}$
 - d) $\frac{1}{6}$
11. If P (A) = P and P (B) = q then
- a) P (A/B) $\frac{P}{q}$
 - b) P (A/B) $\frac{P}{q}$
 - c) P (A/B) $\frac{P}{q}$
 - d) P (A/B) $\frac{P}{q}$
12. Three identical dice are rolled. The probability that the same number will appear on each them.
- a) $\frac{1}{6}$
 - b) $\frac{1}{12}$
 - c) $\frac{1}{36}$
 - d) $\frac{1}{24}$
13. Number of mis prints per page of a hick book follows
- a) Normal distribution
 - b) Poisson distribution
 - c) Binomial distribution
 - d) Standard normal distribution
14. The most important continuous probability distribution is known as
- a) Binomial distribution
 - b) Normal distribution
 - c) Chi- square distribution
 - d) Sampling distribution
15. If the quartile deviation of a normal curve is 4.05, then its mean deviation is
- a) 5.26
 - b) 6.24
 - c) 4.24
 - d) 4.80
16. What is the standard deviation of the number of recoveries among 48 patients, when the probability of recovering is 0.75?
- a) 36
 - b) 81
 - c) 9
 - d) 6

17. The average of five quantities is 6 and the average of three is 8. What is average of the remaining two?
a) 4
b) 5
c) 3
d) 2
18. The most commonly used measure of central tendency is
a) AM
b) Median
c) Mode
d) GM
19. A sum doubles in 20 yr at simple interest. How much is the rate?
a) 5% per annum
b) 4% per annum
c) 8% per annum
d) 10% per annum
20. A certain sum of money becomes Rs. 1250 in a span of 5 yr at simple interest and further to Rs 1700 in the span of 8 yr. At the same rate, what it amount to at end of 12 yr?
a) Rs. 2250
b) Rs. 2050
c) Rs. 2300
d) Rs. 2450
21. In what time will the simple interest be $\frac{2}{5}$ of the principal at 8% per annum ?
a) 8 yr
b) 7 yr
c) 5 yr
d) 6 yr
22. What sum of money will amount to Rs. 520 in 5 yr and to Rs. 568 in 7 yr at simple interest?
a) Rs. 400
b) Rs. 120
c) Rs. 510
d) Rs. 220
23. The simple interest earned on a certain sum of money for 10 yr at the rate of 5% per annum was half the sum. How much is the sum ?
a) Rs. 1000
b) Rs. 2000
c) Rs. 3000
d) Data inadequate
24. What annual payment will discharge a debt of Rs. 1025 due in 2 yr at the rate of 5% compounds interest ?
a) Rs. 551.25
b) Rs. 550.00
c) Rs. 560.00
d) Rs. 560.75
25. What is the difference between the CI and SI on a sum of Rs 1600 at 5% rate annum for period of 2 yr?
a) Rs. 8
b) Rs. 4
c) Rs. 16
d) Cannot be determined
26. What is the compound interest on Rs. 6000 at 10% per annum for one year compounded half-yearly?
a) Rs.1260
b) Rs. 630
c) Rs. 615
d) Rs. 600
27. The quartiles of a variable are 45,52 and 65, respectively. Its quartile deviation is
a) 10
b) 20
c) 25
d) 11
28. What is the standard deviation of 5,5,9,9,9,10,5,10 and 10?
a) $\sqrt{14}$
b) $\frac{1}{3}\sqrt{42}$
c) 4.50
d) 6.50
29. Which of the following is not a two dimensional figure ?
a) Line diagram
b) Pie diagram
c) Square diagram
d) Rectangle diagram
30. In inclusive classification of data
a) Both the class limits are included in that class
b) Usually it is used for discrete data
c) Both (a) and (b)
d) None of the above
31. The test of shifting the base is called
a) Unit test
b) Time reversal test
c) Circular test
d) None of the these
32. P_{01} is the index for time
a) 1 or 0
b) 0 or 1
c) 1 or 1
d) 0 or 0
33. Which of the following statements is true?
a) Usually mean is the best measure of central tendency
b) Usually median is the best measure of central tendency
c) Usually mode is the best measure of central tendency

- d) Normally, GM is the best measure of Central tendency
34. Laspeyre's and pasche's method satisfy time reversal test.
- True
 - False
 - Both (a) and (b)
 - None of these
35. Bivariate data are the data collected for
- Two variables
 - More than two variables
 - Two variables at the same point of time
 - Two variables at different points of time
36. As the sample size increases, standard error
- Increases
 - Decreases
 - Remains constant
 - Decreases proportionately
37. Ogive is a _____
- Line diagram
 - Bar diagram
 - Both (a) and (b)
 - None of these
38. The value of deciles divides the total number of observations into _____ equal parts.
- 100
 - 10
 - 2
 - None of these
39. _____ is an absolute measure of dispersion.
- Range
 - Mean deviation
 - Standard deviation
 - All of these
40. A graphical representation of _____ can be prepared in two different ways.
- Median
 - Mode
 - Mean
 - None of these
41. Find the amount of annuity of payment of Rs. 7000 is made annually for 7 yr at interest rate of 6% compounded annually.
- 49000
 - 49300
 - 58753.33
 - 50500
42. A card is drawn from each of two well shuffled packs of cards. The probability that atleast one of them is an ace is
- 1/169
 - 25/169
 - 2/13
 - None of these
43. The mean of binomial distribution is 4 and standard deviation $\sqrt{3}$. What is the value of n ?
- 14
 - 16
 - 18
 - 20
44. If the first quartile is 104 and quartile deviation is 18, the third quartile will be
- 140
 - 116
 - 20
 - 0
45. If an unbiased coin is tossed once, then two events head and tail are
- Mutually exclusive
 - Exhaustive
 - Equally likely
 - All of these
46. In audit test statistical methods are not used
- True
 - False
 - Both (a) and (b)
 - None of these
47. Which of the following measures of central tendency is based on only 50% of the central values?
- Mean
 - Median
 - Mode
 - Both (a) and (b)
48. Mode of 0, 3, 5, 6, 7, 9, 12, 0 and 2 is
- 6
 - 0
 - 3
 - 5
49. _____ may be defined as the minimum value and the maximum value, the class interval may contain.
- Class mark
 - Class limit
 - Both (a) and (b)
 - None of these
50. Quartiles are values dividing a given set of observations into _____ equal parts.
- Two
 - Four
 - Six
 - Ten
51. If in Binomial distribution mean is 10 and standard deviation is 2, q will be
- 0
 - 0.2
 - 0.8
 - 0.4

52. A person lend _____ at simple interest in order of getting Rs. 645 at the end of $1\frac{1}{2}$ per annum at the rate 5%.
- Rs. 600
 - Rs. 625
 - Rs. 550
 - Rs. 575
53. The _____ size of the sample more reliable is the result.
- Median
 - Smaller
 - Larger
 - None of these
54. What will be the final value of investment for the principal value of Rs. 80000 for 4 yr at the rate 10% per annum rate of interest?
- Rs. 83200
 - Rs. 112000
 - Rs. 82300
 - None of these
55. A pair of dice is thrown. What is the probability that the sum of the numbers obtained is more than 10?
- 1/18
 - 1/9
 - 1/12
 - None of these
56. The mean of binomial distribution is 4 and standard deviation is $\sqrt{3}$. What is the value of P ?
- 1/3
 - 1/4
 - 1/5
 - 3/4
57. A bag contains 30 balls numbered from 1 to 30. One ball is drawn at random. The probability that the number of the drawn ball will be multiple of 3 or 7 is
- 7/15
 - 13/30
 - 1/2
 - None of these
58. If the relationship between x and y is given by $4x - 5y = 10$ and the range of x is 15, what would be the range of y ?
- 10
 - 11
 - 12
 - 13
59. When successive prices or quantities are taken, the relatives are called?
- Link relative
 - Price relative
 - Both (a) and (b)
 - None of these
60. Price index numbers are used to
- Measure and compare prices
 - Measure prices
 - Compare prices
 - None of these
61. Quartile deviation can be affected by
- Poisson distribution
 - Binomial distribution
 - Sampling fluctuations
 - None of these
62. The present value of an annuity of 3000 for 15 yr at 4.5% per annum, then CI is
- Rs. 23809.41
 - Rs. 32000
 - Rs. 32908.41
 - None of these
63. The compound interest on Rs. 1000 for 10 yr at 4% per annum the interest being paid quarterly is _____
- 786
 - 586
 - 490
 - 186
64. In _____ first payment/ receipt takes place at the end of first period.
- Annuity due
 - Annuity regular
 - Annuity special
 - None of these
65. What rate per cent will a sum double it self in 7 yr, if the interest is compounded annually?
- 7.0%
 - 8.0%
 - 10%
 - 7.9%
66. If compounding is done quarterly, what will be the amount Mr. Ravi will receive for Rs. 4000 at the rate of 10% rate of interest for 4Yr?
- Rs. 5893.02
 - Rs. 5938.02
 - Rs. 5000
 - None of these
67. The most important probability distribution is known as
- Binomial distribution
 - Normal distribution
 - Chi-square distribution
 - Sampling distribution
68. If an unbiased coin is tossed once, then the two events head and tail are
- Mutually exclusive
 - Exhaustive
 - Equally likely
 - All of these

69. Compound interest for a certain sum at the rate 5% per annum for first year is Rs. 25. Then, SI for the same money at the rate 5% per annum for 2 yr will be
- Rs. 40
 - Rs. 50
 - Rs. 60
 - Rs. 70
70. The average salary of 50 mens was Rs. 80 but it was found that salary of 2 of them were Rs. 46 and Rs. 28 which was wrongly taken as Rs. 64 and Rs. 82. The revised average salary is
- Rs. 80
 - Rs. 78.56
 - Rs. 85.26
 - Rs. 85
71. What is the coefficient of range for the following wages of 8 workers (in Rs) ?
80, 65,90,60,75,70,72,85
- Rs. 30
 - Rs. 20
 - 35
 - 25
72. The total of the deviation of a set of observation from their AM is always.
- 0
 - 1
 - 1
 - 2
73. Median of 2,5,8,4,9,6 and 71 is
- - 9
 - 8
 - 5
 - 6
74. Shape of normal curve is _____
- J-shaped
 - U-shaped
 - Bell-Shaped
 - None of these
75. A number is selected at random from number 200 to 500. The probability that is divisible by 7 is
- $\frac{41}{100}$
 - $\frac{400}{300}$
 - $\frac{42}{300}$
 - None of these
76. Price relative is expressed in term of
- $P = \frac{P_n}{P_0}$
 - $P = \frac{P_0}{P_n}$
 - $P = \frac{P_n}{P_0} \times 100$
- d) $P = \frac{P_0}{P_n} \times 100$
77. Consumer price index number for yhe year 1957 was 313 with 1940 as the base year, the average monthly wages in 1957 of the workers in a factory be Rs. 160. Their real wages is
- 48.40
 - 51.12
 - 40.30
 - None of these
78. Purchasing power of money is
- Reciprocal of price index number
 - Unequal to price index number
 - Equal to price index number
 - None of these
79. If $\sum P_0 Q_0 = 3500$, $\sum P_1 Q_0 = 3850$. Then the cost of living index for 1950 with respect to base 1960 is
- 110
 - 90
 - 100
 - None of these
80. Wholesale Price index (WPI) is given by
- Marshall-Edgeworth index
 - Laspeyre's index
 - Paasche's index
 - None of these
81. Time reversal test is represented symbolically by
- $P_{01} \times P_{10}$
 - $P_{01} \times P_{10} = 1$
 - $P_{01} \times P_{10} \neq 1$
 - None of these
82. Laspeyre's or Paasche's or the Fisher's index do not satisfy
- Time reversal test
 - Unit test
 - Circular test
 - None of these
83. A what rate of interest would an amount become 3 times in 10 yr.?
- 11.6%
 - 11%
 - 12%
 - None of these
84. If the prices of all commodities in a place have decreased 35% over the base period prices, then the index number of prices of that place is now
- 35
 - 135
 - 85
 - None of these
85. At a certain rate of interest, the amount becomes double in 6 yr. Then, at same rate in how many years would it be four times?

- a) 10 yr
b) 12 yr
c) 11 yr
d) None of these
86. Cost of living index number (CLI) is expressed in terms of
a) $\frac{\sum P_1 Q_1}{\sum P_0 Q_0} \times 100$
b) $\frac{\sum P_1 Q_0}{\sum P_0 Q_0}$
c) $\frac{\sum P_0 Q_1}{\sum P_1 Q_1} \times 100$
d) None of these
87. is extremely sensitive to the size of the sample
a) Range
b) Mean
c) Median
d) Mode
88. The wages of 8 workers expressed in rupees are 42,45,49,38,56,54,55 and 47 find median wage.
a) 47
b) 48
c) 49
d) 50
89. A bag contains Rs. 187 in the form of Rs. 1,50 Paise and 10 Paise coins in the ratio of 3:4:5 find the number of each type of coins.
a) 30,40,50
b) 102,136,170
c) 60,80,100
d) None of these
90. If the median of 5,9,11,3,4, X and 8 is 6, then the value of X is equal to
a) 6
b) 5
c) 4
d) 3
91. An ordinary dice is thrown. What is the probability that the number appearing on the dice is greater than 3?
a) 
b) 
c) 
d) None of these
92. From a well shuffled pack of cards is drawn at random. Find the probability that it is an ace.
a) $\frac{1}{4}$
b) $\frac{1}{13}$
c) $\frac{4}{17}$
d) $\frac{3}{13}$
93. A's family income is Rs. 1440. If a pie chart is drawn to show how he spends under various heads such food, clothing education etc; then the amount spent on education, if it is represented by a sector of central angle 45° , is
a) Rs.32
b) Rs.64.80
c) Rs. 180
d) Insufficient data
94. Five coins whose face are marked 2,3 are thrown. What is the probability of obtaining a total of 12?
a) $\frac{1}{16}$
b) $\frac{3}{16}$
c) $\frac{5}{16}$
d) $\frac{7}{16}$
95. For two events A and B if $p(A) = P\left(\frac{A}{B}\right) = \frac{1}{4}$ and $P\left(\frac{A}{\bar{B}}\right) = \frac{1}{2}$, then $p\left(\frac{A}{B}\right)$ is equal to
a) $\frac{1}{4}$
b) $\frac{1}{2}$
c) $\frac{3}{4}$
d) 1
96. Two cards are drawn at random from a pack of 52 cards. The probability of these two being aces is
a) $\frac{1}{26}$
b) $\frac{1}{221}$
c) $\frac{1}{2}$
d) None of these
97. The probability of getting heads in both trials, when a balanced coin is tossed twice will be
a) $\frac{1}{4}$
b) $\frac{1}{2}$
c) 1
d) $\frac{3}{4}$
98. A bag contains 5 brown and 4 white socks. A man pulls out two socks. The probability that they are of the same colour is
a) $\frac{5}{100}$
b) $\frac{1}{6}$
c) $\frac{5}{18}$
d) $\frac{4}{9}$
99. A card is drawn at random from a pack of 100 cards numbered 1 to 100. The probability of drawing a number which is a square is

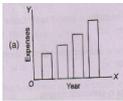
- a) $\frac{1}{10}$
 b) $\frac{1}{49}$
 c) $\frac{1}{10}$
 d) None of these
100. What is the probability of two persons being born on the same day (ignoring date)?
 a) $\frac{1}{49}$
 b) $\frac{1}{365}$
 c) $\frac{1}{7}$
 d) $\frac{1}{7}$
101. Laspeyre's formula does not obey
 a) Factor reversal test
 b) Time reversal test
 c) Circular test
 d) None of these
102. We use price index numbers
 a) To measure and compare prices
 b) To measure prices
 c) To compare prices
 d) None of these
103. Cost of living index numbers are also used to find real wages by the process of
 a) Base shifting
 b) Splicing of index number
 c) Deflating of index numbers
 d) None of these
104. The AM of 1, 3, 5, 6, x and 10 is 6 then the value of x is
 a) 10
 b) 11
 c) 12
 d) 13
105. The coefficient of mean deviation about mean for the first n natural numbers is
 a) $\frac{200}{9}$
 b) 80
 c) $\frac{400}{9}$
 d) $\frac{300}{9}$
106. The third decile for the numbers 15, 10, 20, 25, 18, 11, 9 and 12 is
 a) 13
 b) 10.70
 c) 11
 d) 11.80
107. For any two number SD is always
 a) twice the range
 b) half the range
 c) square of the range
 d) range
108. The lower class boundary is
 a) an upper limit to lower class limit
 b) a lower limit to lower class limit
 c) Both (a) and (b)
 d) None of these
109. Some important sources of secondary data are
 a) international and government source
 b) international and primary sources
 c) private and primary sources
 d) government source
110. An area diagram is
 a) histogram
 b) frequency polygon
 c) ogive
 d) None of these
111. A person invests Rs. 5000 at 5% per annum simple interest for a certain period and earns Rs.750. If he earns Rs. 720 on Rs. 6000 in the same time period what is the rate of interest?
 a) Rs. 1500
 b) Rs. 1400
 c) Rs. 1600
 d) Rs. 1550
112. What annual instalment will discharge a debt of Rs. 6450 due in 4 yr at 5% simple interest ?
 a) Rs. 1500
 b) Rs. 1400
 c) Rs. 1600
 d) Rs. 1550
113. Harsha makes a fixed deposit of Rs. 20000 with the Bank of India for a period of 3 yr. If the rate of interest be 13% SI per annum charged half-yearly. What amount will he get after 42 months?
 a) 27000
 b) 28100
 c) 29100
 d) None of these
114. What will be the simple interest (approx.) on Rs. 700 at 9% per annum for the period from February 5, 1994 to April 18 1994?
 a) Rs. 12
 b) Rs. 11.30
 c) Rs. 15
 d) Rs. 13
115. A difference between the interest received from two different banks on Rs. 400 for 2 yr is Rs. 4. What is the difference between their rates?
 a) 0.5%
 b) 0.2%
 c) 0.23%
 d) 0.52%
116. In how many years will Rs. 2000 amount to Rs. 2420 at 10% per annum compound interest?
 a) 3 yr
 b) $2 \frac{1}{2}$ yr

- c) 2 yr
d) 1 ½ yr
117. The difference between the simple interests on a certain sum of money at 6% per annum for 10 years and at 5% per annum for 2 yr is Rs. 100. Find the sum.
a) Rs. 100
b) Rs. 200
c) Rs. 400
d) Rs. 500
118. A sum of money is borrowed and paid back in two equal annual instalments of Rs. 882, allowing 5% compound interest. The sum borrowed was
a) Rs. 1640
b) Rs. 1680
c) Rs. 1620
d) Rs. 1700
119. Rs. 7500 is borrowed at CI and the rate of 2% for the first year, 4% for the second year and 5% for the third year. The amount to be paid after 3 yr will be
a) Rs. 8353.80
b) Rs. 8520.20
c) Rs. 8235.00
d) Rs. 8432.00
120. What sum of money at compound interest will amount to Rs. 480 at the end of first year and Rs. 576 at the end of second year?
a) Rs. 420
b) Rs. 450
c) Rs. 400
d) Rs. 375
121. An unbiased dice and coin are tossed together. The probability that a coin shows head and there is an even number on the dice is
a. $1/6$
b. $2/3$
c. $1/4$
d. None of these
122. Fisher's index number is based on
a. the arithmetic mean of Laspeyre's and Paasche's index numbers
b. the median of Laspeyre's and Paasche's index numbers
c. the mode of Laspeyre's and Paasche's index numbers
d. None of the above
123. Which of the following is characteristics of data?
a. Accuracy in data collection
b. Collection of data in systematic manner
c. Pre-determined objectives
d. All of these
124. In general, inflation is calculated by using
a. Consumer price index
b. Wholesale price index
c. Producer's price index
d. Weighted aggregative method
125. If the same quantity is multiplied to all the values, the mean shall _____ by the same amount.
a. add
b. subtract
c. multiply
d. divide
126. The data are known to be _____, if the data as being already collected, are used by a different person or agency.
a. Primary
b. Secondary
c. Specialised
d. Subsidiary
127. 50% of actual values will be below and 50% of values will be
a. Mode
b. Median
c. Mean
d. None of these
128. The difference between the simple interest and the compound interest on Rs. 1200 for 4yr at 10% per annum is
a. Rs.77
b. Rs.480
c. Rs. 80
d. Rs.557
129. A card is drawn from a pack of playing cards and then another card is drawn without the first being replaced, What is the probability of getting two hearts?
a. $1/17$
b. $1/4$
c. $2/17$
d. None of these
130. Rs. 1000 is invested at annual rate of interest of 10% per annum. The amount after 2yr, if compounding is done annually, is
a. Rs 121
b. Rs 1210
c. Rs. 2110
d. None of these
131. For a moderately skewed distribution of marks in statistics for a group of 100 students, the mean mark and median were found to be 50 and 40,. What is the modal mark?
a. 15
b. 20
c. 25
d. 30
132. Which of the following statement is correct?

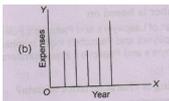
- a. Need of statistics in economic planning
b. Need of statistics in social and natural science
c. Need in business and management
d. All of these
133. Given, Mode = 22 and median = 21.4. Find out average mean.
a. 21.1
b. 22.1
c. 23.1
d. None of these
134. Which of the following is the objective of classification?
a. Comparative study
b. Simplification of facts
c. Conciseness
d. All of these
135. A branch deals with method and techniques used for analysis of a set or subset of data leading to predictions or inference about the entire population known as
a. Inductive statistics
b. Descriptive statistics
c. raw data
d. All these

136. Which figure represent the simple bar diagrams?

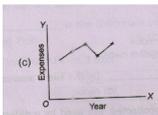
a)



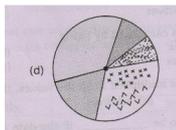
b)



c)



d)



137. Statistical errors may be
a. Two types
b. Three types
c. Four types
d. None of these

138. In the development of statistical methods, the great contribution is that of
a. Economists
b. Scientists
c. Mathematicians
d. None of these
139. The entire upper part of the table is known as
a. Caption
b. Stub
c. Box head
d. Body
140. The best method to collect data, in case of a natural calamity is
a. Personal interview
b. Indirect interview
c. Direct observation method
d. Questionnaire method
141. A frequency distribution
a. Arranges observations in an increasing order
b. Arranges observations in terms of a number of groups
c. Relates to measurable characteristic
d. All of the above
142. Probability density function is always
a. greater than 0
b. greater than equal to 0
c. less than 0
d. less than equal
143. If the quartile deviation of x is 6 and $4x+8y=20$. What is the quartile deviation of y?
a. 3
b. 4
c. 5
d. 1
144. An index time series is a list of _____ number for two or more periods of time.
a. index
b. absolute
c. relative
d. sample
145. A bag contains 10 red and 10 green balls. A ball is drawn from it. The probability that it will be green is
a. 1/10
b. 1/3
c. 1/2
d. None of these
146. The price of commodity was four times higher in 1970, then it was a decade back. Find the average rate of growth of price of the commodity.
a. AM=50.2
b. AM=50.3
c. AM=50.4
d. None of these

147. Satisfied random sampling is the most widely used probability _____ method.

- sampling
- probability
- universe
- census

148. The words of 'Statistics' is derived from

- statistic
- statista
- status
- All of these

149. Forecasting is

- subject matter of statistics
- scope of statistics
- methods of statistics
- All these

150. Assumed mean can be expressed by

- Z
- A
- $X - \bar{T}$
- $X - \bar{A}$

151. Which one of the following class interval has different class size from -other?

- 123-131
- 133-141.8
- 136-144
- None of the these

152. The formula for mean is

- $\bar{x} = a + \frac{\sum fd}{N}$
- $\bar{x} = a + \frac{\sum f}{dN}$
- $\bar{x} = a - \frac{\sum fd}{N}$
- None of these

153. The mean of the data 2,4,6,8,10,12,14,16,18, and 20 is

- 10
- 10.5
- 11
- 11.5

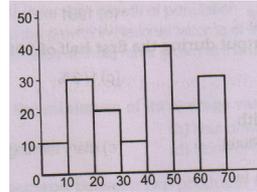
154. The mean of first 8 odd numbers is

- 7
- 8
- 8.5
- None of these

155. Marks obtained by a student in 5 subjects are given below 25,26,27,28 and 29 in these obtained marks 27 is

- Mode
- Median and mode
- Mean and median
- Both (a) and (b)

156. In the graph shown below, the cumulative frequency of the interval 40-50 is



- 40
- 70
- 110
- 120

157. Time reversal test is represented symbolically by

- $P_{01} \times P_{10}$
- $P_{01} \times P_{10} = 1$
- $P_{01} \times P_{10} = 1$ /
- None of these

158. An index number which accounts for the relative importance of the items is known as

- Weighted index
- Weighted aggregative index
- Simple aggregative index
- Simple average of relatives

159. The probability that a card a drawn from a pack of 52 cards will be a diamnond or a king is

- 4/52
- 4/13
- 1/52
- 2/13

160. A card is drawn from a well-shuffled pack of cards. The probability of getting a queen of club or king of heart is

- 1/52
- 1/26
- 1/13
- None of these

161. Two cards are drawn at random from a pack of 52 cards. The probability of theses two being aces is

- 1/26
- 1/221
- 1/2
- None of these

162. The probability of getting heads in both trials, when a balanced coin is tossed twice, will be

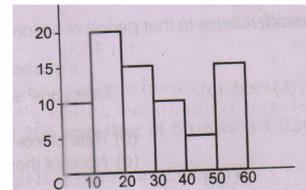
- 1/4
- 1/2
- 1
- 3/4

163. A person draws two cards with replacement from a pack of 52 cards. What is the chance that he gets both the cards of same suit

- 1/4
- 3/13

- c. $1/16$
d. None of these
164. The mean of 80 items was 42. Later, it was found that the two items were misread as 87 and 6 instead of 187 and 66. Which of the following will be the correct mean?
a. 44
b. 45
c. 42.6
d. None of these
165. I had Rs. 10000 with me. Out of this money I lent some money to A for 2yr at the rate 15% simple interest. I lent the remaining money to B for an equal number of years at the rate 18% simple interest. After 2 yr, I found that A had given me Rs 360 more as interest as compared at the rate to B. The amount of money which I had lent to B must have been
a. Rs. 2000
b. Rs. 3000
c. Rs. 4000
d. Rs. 5000
166. Rs 800 becomes Rs 956 in 3yr at certain simple rate of interest. If the rate of interest is increased by 4% what amount will Rs 800 becomes in 3 yr?
a. Rs. 1020.8
b. Rs. 1025
c. Rs. 1052
d. None of these
167. Srinivasan invests two equal amounts in two banks giving 10% and 12% rate of interest of interest, respectively. At the end of year the interest earned is Rs 1650. Find the sum invested in each.
a. Rs 8500
b. Rs 15000
c. Rs 7500
d. Rs 17000
168. The rate of simple interest on an amount of money is 6% per annum for the first two years, 9% per annum for the next five years and 13% per annum for the period beyond seven years. If the total interest on a sum at the end of ten years is Rs 7680, what is the sum?
a. Rs 7000
b. Rs 8000
c. Rs 8500
d. Rs 10000
169. A single letter is selected at random from the word 'PROBABILITY'. The probability that it is a vowel is
a. $3/11$
b. $4/11$
c. $2/11$
d. 0
170. Three mangoes and three apples are in box. If two fruits are chosen at random, the probability that one is a mango and the other is an apple is
a. $2/3$
b. $3/5$
c. $1/3$
d. None of these
171. A sum doubles in 20 yr at simple interest. How much is the rate?
a. 5% per annum
b. 4% per annum
c. 8% per annum
d. 10 per annum
172. A sum of Rs. 5984 becomes Rs 8976 in 6yr at SI. What is the rate?
a. 10% per annum
b. 6% per annum
c. 12% per annum
d. $8\frac{1}{3}$ % per annum
173. The simple interest on a certain principle at the rate 4% per annum for 5yr is Rs 800. How much is the principle amount?
a. Rs 5000
b. Rs 6000
c. Rs 4500
d. Rs 4000
174. A certain sum of money becomes Rs 1250 in a span of 5 yr at simple interest and further to Rs 1700 in the span of 8yr. At the same rate, what would it amount to at the end of 12 yr?
a. Rs 2250
b. Rs 2050
c. Rs 2300
d. Rs 2450
175. The number of years for an amount of money to treble at 16% simple interest is
a. $12\frac{1}{2}$ yr
b. 10 yr
c. $8\frac{1}{2}$ yr
d. 6 yr
176. A sum of money invested at a certain rate of simple doubles itself in 12 yr and 6 months. It will treble itself at the same rate of interest in
a. 18yr and 9 months
b. 20 yr and 8 months
c. 22 yr
d. 25 yr
177. In _____ first payment/ receipt takes place at the end of first period.
a. annuity due
b. annuity regular
c. annuity special
d. None of these

178. A binomial distribution is
 a. Never symmetrical
 b. Never negatively skewed
 c. Symmetrical when $P=0.5$
 d. Never positively skewed
179. Mutually exclusive classification is usually meant for
 a. a discrete variable
 b. a continuous variable
 c. an attribute
 d. All of these
180. Ogive is used to obtain
 a. mean
 b. mode
 c. quartiles
 d. All of these
181. The frequency distribution of two variables is known as
 a. Univariate distribution
 b. Bivariate distribution
 c. Multivariate distribution
 d. None of these
182. Statistical calculation in classified data are based on
 a. the actual values of observation
 b. the upper class limit
 c. the lower class limit
 d. the class mid- points
183. Range is the
 a. difference between the largest and the smallest observations
 b. difference between the smallest and the largest observations
 c. average of the largest and the smallest observations
 d. ratio of the largest to the smallest observation
184. Data represented through a histogram can help in finding graphically the
 a. mean
 b. mode
 c. median
 d. All of these
185. Data represented through arithmetic line graph help in understandings
 a. long term trend
 b. cyclicity in data
 c. seasonality in data
 d. All of these
186. The algebraic sum of deviation of a set of n values from AM is
 a. n
 b. 0
 c. 1
 d. None of these
187. The item having the highest weight in consumer price index for industrial workers is
 a. food
 b. housing
 c. clothing
 d. All of these
188. The average score of boys in an examination of a school is 71 and that of girls is 73. The average score of school in the examination is 71.8. Find the ratio of the number of boys to the number appeared in the examination.
 a. 2:1
 b. 1:2
 c. 3:2
 d. 2:3
189. Mean of the ages of 20 students is 10yr. 5 students with mean age of 12yr, leave the class. Mean of ages of the remaining students will be
 a. 4
 b. 5.66
 c. 7
 d. 8
190. Which class interval has minimum frequency in the following group?



- a. 20-30
 b. 40-50
 c. 50-60
 d. 0-10

191. An ordinary dice is thrown. What is the probability that the number appearing on the dice is greater than 3?
 a. $\frac{1}{2}$
 b. $\frac{1}{3}$
 c. $\frac{1}{4}$
 d. None of these
192. For two events A and B, If $P(A) = P\{A/B\} = \frac{1}{4}$ and $P\{B/A\} = \frac{1}{2}$, then $P\{A'/B\}$ is equal to
 a. $\frac{1}{4}$
 b. $\frac{1}{2}$
 c. $\frac{3}{4}$
 d. 1
193. Three digital numbers are formed using the digits 0,2,4,6 and 8. A number is chosen at random out of these numbers. What is the probability that the number has the same digits?

- a. $1/16$
b. $1/25$
c. $16/25$
d. $1/645$
194. A coin is tossed. If a head is observed, a number is randomly selected from the set (1,2,3) and if a tail is observed, a number is randomly selected from the set (2,3,4,5). If the selected number be denoted by X, What is the probability that $X = 3$?
- a. $2/7$
b. $1/5$
c. $1/6$
d. $7/24$
195. What is the probability of having 53 Sundays or 53 Mondays in a leap year?
- a. $2/7$
b. $3/7$
c. $4/7$
d. $5/7$
196. What is the probability of two persons being born on the same day (ignoring date)?
- a. $1/49$
b. $1/365$
c. $1/7$
d. $2/7$
197. What is the probability that in a family of 4 children there will be at least one boy?
- a. $15/16$
b. $3/8$
c. $1/16$
d. $7/8$
198. If $P(A) = 0.8$, $P(B) = 0.9$, $P(AB) = P$, which one of the following is correct?
- a. $0.72 \leq p \leq 0.8$
b. $0.7 \leq p \leq 0.8$
c. $0.72 < p < 0.8$
d. $0.7 < p < 0.8$
199. A sum of money is borrowed and paid back in two equal annual instalments or 882, allowing 5% compound interest. The sum borrowed was
- a. Rs 1640
b. Rs 1680
c. Rs 1620
d. Rs 1700
200. How much will Rs 25000 amount to in 2 yr at compound interest, if the rates for the successive years be 4% and 5% per annum?
- a. Rs 26600
b. Rs 27300
c. Rs 27100
d. Rs 28050
201. Find the principle if compound interest is charged on the principle at the rate of $16 \frac{2}{3}\%$ per annum for two years and the sum becomes RS 196.
- a. Rs 140
b. Rs 154
c. Rs 150
d. None of these
202. The SBI lent Rs 1331 to the TATA group at compound interest and got Rs 1728 after three years. What is the rate of interest is compounded annually?
- a. 11%
b. 9.09%
c. 12%
d. 8.33%
203. A sum of Rs 400 amounts to Rs 441 in 2 yr. What will it amount to if the rate of interest is increased by 5%?
- a. Rs 484
b. Rs 560
c. Rs 512
d. None of these
204. If the difference between the compound interest, compounded every six months and the simple interest on a certain sum of money at the rate of 12% per annum for one year is Rs 36, then the sum is
- a. Rs 10000
b. Rs 12000
c. Rs 15000
d. Rs 9000
205. A difference between the interest received from two different banks on Rs 400 for 2 year is Rs 4. What is the difference between their rates?
- a. 0.5%
b. 0.2%
c. 0.23%
d. 0.25%
206. Statistics can best be considered as
- a. An art
b. Science
c. Both (a) and (b)
d. Neither (a) nor (b)
207. A sum of money becomes 4 times at simple interest in 10 years. What is the rate of interest?
- a. 10%
b. 20%
c. 30%
d. 40%
208. A lends Rs 2500 to B and a certain sum to C at the same time at 7% annual simple interest. If after 4 yr, A altogether receives Rs 1120 as interest from B and C, the sum lent to c is
- a. Rs. 700
b. Rs. 6500

- c. Rs. 4000
d. Rs 1500
209. Harsha makes a fixed deposits of Rs 20000 with the Bank of India for a period of 3 yr. If the rate of Interest be 13% SI annum charged half-yearly, what amount will he get after 42 months?
a. 27800
b. 28100
c. 29100
d. None of these
210. Suresh borrowed RS 800 at 6% and Naresh borrowed RS 600 at 10%. After how much time will they both have equal debts ?
a. $15^{1/3}$ yr
b. $14^{1/2}$ yr
c. $18^{1/3}$ yr
d. $16^{2/3}$ yr
211. A coin is tossed n times. The probability that the head (H) occurs six times is equal to the probability that the head occurs eight times. What is the value of n?
a. 7
b. 14
c. 16
d. 19
212. The probability that in the toss of two dice we obtain an even sum or sum less than 5 is
a. 1/2
b. 1/6
c. 2/3
d. 5/9
213. A lot of 4 white and 4 red balls is randomly dividend into two halves. What is the probability that there will be 2 red and 2 white balls in each half?
a. 18/35
b. 3/35
c. 1/2
d. None of these
214. A coin is tossed 10 times. The number of heads minus the number of tails in 10 tosses in considered as the outcome of the experiment. What is the number of points in the sample space?
a. 10
b. 11
c. 21
d. 99
215. Two numbers X and Y are simultaneously drawn from the set {1,2,3,4,5,6,7,8,9,10}. What is the conditional probability of exactly one of the two members X and Y being even, given $(X+Y) = 15$?
a. 1
b. 3/4
c. 1/2
d. 1/4

216. The chance of wining the race of the horse A is 1/5 and that of horse B is 1/6. What is the probability that the race will be won by A or B?
a. 1/30
b. 1/3
c. 11/30
d. 1/15
217. Given that, $P(A) = 1/3$, $P(A) = 3/4$ and $P(A + B) = 11/12$, than what is $P(B/A)$?
a. 1/7
b. 4/9
c. 1/2
d. 1/3
218. What is the value of X, if the arithmetic mean of the data given below is 4

Number	Frequency
X +3	3
X -7	7
x-4	11

- a. 5
b. 6
c. 7
d. 8
219. Given the mean (30), the mode 35. What is the median?
a. 30
b. 31.69
c. 40
d. 55.7
220. What does f_0 represent in the following formula
 $L_1 + F_1 - f_0 / 2f_1 - f_0 - f_2 \times i$
a. Frequency of the modal class
b. Lower limit on the modal class
c. Frequency of the class preceding the modal class
d. Frequency of the class succeeding the modal class
221. Which of the following is the step deviation formula for mean calculation?
a) $\bar{x} = a - \left[\frac{\sum f_i u_i}{\sum f_i} \right] \times h$
b) $\bar{x} = a + \left[\frac{\sum f_i u_i}{\sum f_i} \right] \times h$
c) $\bar{x} = \left[\frac{\sum f_i u_i}{\sum f_i} \right] \times h$
d) $\bar{x} = a + \left[\frac{\sum f_i u_i}{\sum f_i} \right]$
222. The sum of all frequencies upto the corresponding class is called
a. Cumulative frequency
b. Frequency
c. Class interval
d. Mean

223. In most of the weighted index numbers the weight pertains to
- Base year
 - Current year
 - Both(a) and (b)
 - None of these
224. The impact of change in the price of a commodity with little weight in the index will be
- Small
 - Large
 - Uncertain
 - None of these
225. In general, inflation is calculated by using
- Wholesale Price Index
 - Consumer Price Index
 - Producer's price Index
 - Both (a) and (c)
226. The class mid- point is equal to
- the average of the upper class limit and the lower class limit
 - the product of upper class limit and the lower class limit
 - the ratio of the upper class limit and the lower class limit
 - None of the above
227. Range is the
- Difference between the largest and the smallest observation
 - Different between the smallest and the largest observation
 - Average of the largest and the smallest observation
 - Ratio of the largest to the smallest observation
228. A certain amount of money is invested at the interest of 15% per annum. If it had been invested at compound interest, an extra interest of Rs 450 would have been obtained in the second year. What must be the amount invested.
- Rs 30000
 - Rs 15000
 - Rs 20000
 - Rs 10000
229. What annual payment will discharge a debt Rs 1025 due in 2 yr at the rate of 5% compound interest?
- Rs 551.25
 - Rs 550.00
 - Rs 560.00
 - Rs 560.75
230. The compound interest on a certain sum for two years is Rs 618 whereas, the simple interest on the same sum at the same rate for two years is Rs 600. The rate of interest per annum is

- 18%
- 9%
- 6%
- 3%

231. The difference between CI and SI on a sum of money for 3 years at 5% per annum is Rs 61. Find the sum.
- Rs 7000
 - Rs 8000
 - Rs 9000
 - Rs 10000
232. The population of a town is 10000 now and was 8000 two years ago. If it grows at the same rate what will it be 2 years hence?
- 12000
 - 12500
 - 12750
 - 12755

233. Match List I with List II and select the correct answer using the codes given below the lists

	List I (Amount deposited for 10 yr)		List II (Simple interest at the rate of %%)
A.	Rs. 525	1.	Rs 217.50
B	Rs. 200	2.	Rs.100.00
C.	Rs. 435	3.	Rs. 262.50
D.	Rs. 600	4.	Rs. 300.00

Codes

- A B C D
 - 3 1 2 4
 - A B C D
 - 3 2 1 4
 - A B C D
 - 4 2 3 1
 - A B C D
 - 2 4 1 3
234. The simple interest on a sum of money will be Rs 190 after 7 yr. In the next 7 yr principle becomes 3 times, what will be the total interest at the end of the 14 yr?
- Rs 760
 - Rs 850
 - Rs 750
 - Rs 780
235. A sum of money becomes six times at the simple interest rate of 5% per annum. At what rate per cent will it become twelve fold?
- 10%
 - 12%
 - 9 %
 - 11%
236. The data obtained by the interest are

- a. Primary data
b. Secondary data
c. Both (a) and (b)
d. None of these
237. An area diagram is
a. Histogram
b. Frequency polygon
c. Ogive
d. None of these
238. A frequency distribution can be presented graphically by a
a. pie diagram
b. pictogram
c. histogram
d. linediagram
239. Find the variance of binomial distribution with $n=10, P=0.3$.
a. 2.1
b. 3
c. 7
d. None of these
240. At what rate of interest would an amount become 3 times in 10 yr? (given, $3^{1/10} = 1.116$)
a. 11.6%
b. 11%
c. 12%
d. None of these
241. The test of shifting the base is called
a. Unit test
b. Time reversal test
c. Circular test
d. None of these
242. For a moderately skewed distribution, which of the following relationship holds?
a. Mean- Mode =3 (Mean- Median)
b. Median – Mode = 3 (Mean –Median)
c. Mean – Median = 3 (Mean – Mode)
d. Mean –Median =3 (Median – Mode)
243. The value of deciles dividends the total number of observation into _____ equal parts.
a. 100
b. 10
c. 2
d. None of these
244. Caption mean
a. the self explanatory and brief title
b. the subheading of the columns
c. the raw headings
d. None of these
245. If $\text{£}P_n Q_n = 249, \text{£}P_0 Q_0 = 150$, Paasche's index number = 150 and Drobises and Bowely's index number = 145. Then, the Fisher's index number is
a. 75
b. 60
c. 145.97
d. None of these
246. Cost of Living Index (CLI), numbers are also used to find real wages by process of
a. Deflating of index number
b. Splicing of index number
c. Base shifting
d. None of these
247. If $\text{£}P_0 Q_0 = 1360, \text{£} P_n Q_0 = 1900, \text{£} P_0 Q_n = 1344, \text{£} P_n Q_n = 1880$, then the Laspeyre's index number is
a. 0.71
b. 1.40
c. 1.75
d. None of these
248. _____ is an absolute measure of dispersion.
a. Range
b. Mean of deviation
c. Standard deviation
d. All of the these
249. A graphical representation of _____ can be prepared in two different ways.
a. Median
b. Mode
c. Mean
d. None of these
250. If the first quartile is 104 and quartile deviation is 18, then the third quartile will be
a. 140
b. 116
c. 20
d. 0
251. A bag contains 5 red, 4 white and 6 green balls. Three balls are drawn at random. What is the probability that a red, a white and a green balls are drawn?
a. 24/91
b. 25/91
c. 29/91
d. 31/91
252. From a well shuffled pack of cards one card is drawn at random. Find the probability that it is an ace.
a. 1/4
b. 1/13
c. 4/17
d. 2/13
253. Five coins whose faces are marked 2,3, are thrown. What is the probability of obtaining a total of 12?
a. 1/16
b. 3/16
c. 5/16

- d. $7/16$
254. Six text books numbered 1,2,3,4,5 and 6 are arranged at random. What is the probability that the text books 2 and 3 will occupy consecutive place?
- $1/2$
 - $1/3$
 - $1/4$
 - $1/6$
255. A determinant is chosen at random from a set of all determinants of order 2 with elements 0 and /or 1 only. What is the probability that the value of the determinant is positive?
- $3/16$
 - $5/16$
 - $1/16$
 - $13/16$
256. From a pack of 52 cards two cards are drawn at random. Find the probability that one is king and the other is queen.
- $8/665$
 - $7/663$
 - $7/665$
 - None of these
257. Let the mean of the variable 'X' be 50, then the mean of $\mu = 10 + 5x$ will be
- 250
 - 260
 - 265
 - 270
258. Extreme value have _____ effect on mode.
- high
 - low
 - no
 - None of these
259. The limit relative frequency of probability is
- axiomatic
 - classical
 - statistical
 - traditional
260. The accuracy and consistency of data can verified by
- internal checking
 - external checking
 - scrutiny
 - Both (a) and (b)
261. The simple interest on a certain sum at 5% per annum for 3 yr and 4 yr differ by Rs 42. The sum is
- Rs 210
 - Rs 280
 - Rs. 750
 - Rs 840
262. A sum of money at a simple rate of interest i_1 , doubles in 5 yr. At another simple rate of interest i_2 , it becomes three times in 12 yr. Then, the two rates of interest i_1 and i_2 , respectively are
- 10%, $16\frac{2}{3}\%$
 - 10%, 20%
 - 20%, $16\frac{2}{3}\%$
 - 20%, 30%
263. Aniket deposited two parts of a sum of Rs 25000 in different banks at the rates of 15% per annum and 18% per annum, respectively. In one year, he got Rs 4050 as the total interest. What was the amount deposited at the rate of 18% per annum?
- Rs 9000
 - Rs 12000
 - Rs 15000
 - None of these
264. A card is drawn from a pack of 52 cards and a gambler bets that it is a spade or an ace. Which one of the following are the odds against his winning this bet?
- $13/4$
 - $4/13$
 - $9/4$
 - $4/9$
265. The amount of non-responses is maximum in
- mailed questionnaire method
 - interview method
 - observation method
 - All of these
266. The best average for constructing an index number is
- Arithmetic mean
 - Harmonic mean
 - Geometric mean
 - None of these
267. Rs 7500 is borrowed at CI at the rate of 2% for the first year, 4% for the second year and 5% for the third year. The amount to be paid after 3yr will be
- RS 8353.80
 - Rs 8520. 20
 - Rs 8235. 00
 - Rs. 8432.00
268. A person invested a certain amount at simple interest at the rate of 6% per annum earning Rs 900 as an interest at the end of three year. Had the interest been compounded every year. How much more interest would he have earned on the same amount with the same interest rate after three years?
- Rs 38.13
 - Rs 25.33
 - Rs 55. 08
 - Rs 35.30

269. The income of a company increases 20% per annum. If its income is Rs 2664000 in the year 1999, what was its income in the year 1997?
 a. Rs 2820000
 b. Rs 1850000
 c. Rs 2121000
 d. Rs 2855000
270. A sum of, RS 12000 deposited at compound interest becomes after 5 yr. After 20yr , it will become
 a. Rs 120000
 b. Rs 192000
 c. Rs 124000
 d. Rs 96000
271. If the index number of prices at a place in 1994 is 250 with 1984 as base year, then the prices have increased on average
 a. 250%
 b. 150%
 c. 350%
 d. None of these
272. If $\text{P}_0\text{Q}_0 = 3500$, $\text{P}_n\text{Q}_0 = 3850$. Then, the cost of living index for 1950 with respect to base 1960 is
 a. 110
 b. 90
 c. 100
 d. None of these
273. The present value of an annuity of Rs 3000 for 15 yr at 4.5% per annum, then CI is
 a. Rs 23809.41
 b. Rs 32000
 c. Rs 32908.41
 d. None of these
274. The compound interest on Rs 1000 for 10yr at 4% per annum the interest being paid quarterly is
 a. 786
 b. 586
 c. 490
 d. 186
275. From the following data base year

Commodity	Base year		Current year	
	Price	Quantity	Price	Quantity
A	4	3	6	2
B	5	4	0	4
C	7	2	9	2
D	2	3	1	5

Fisher's ideal index is

- a. 117.3
 b. 15.43

- c. 118.35
 d. None of these

276. If standard deviation of a poisson distribution is 2, then its
 a. mode is 2
 b. mode is 4
 c. mode are 3 and 4
 d. modes are 4 and 5
277. A random variable x has the following probability distribution

X	0	1	2	3
P(x)	0	2k	3k	k

Then, $P(x < 3)$ would be

- a. 1/6
 b. 1/3
 c. 2/3
 d. 5/6
278. A pair of dice is to tossed twice, find the probability of getting a total of 7 on each toss.
 a. 7/36
 b. 1/6
 c. 5/36
 d. 4/36
279. If A and B are mutually exclusive events, such that $P(A) = 1/2$ and $P(A + B) = 3/5$, find $p(B)$.
 a. 1/10
 b. 3/5
 c. 7/10
 d. 3/10
280. What is the value of mean deviation about mean for the numbers 5,8,6,3 and 4?
 a. 5.20
 b. 7.20
 c. 1.44
 d. 2.35
281. What is the median for the observations 5,8,6,9,11 and 4?
 a. 6
 b. 7
 c. 8
 d. 5
282. For any two numbers SD is always
 a. twice the range
 b. half the range
 c. square of the range
 d. equal to range
283. Tally marks determined
 a. Class width
 b. Class boundary
 c. Class limit
 d. Class frequency

284. In case of a rail accident, the appropriate method of data collection is by
- personal interview
 - direct interview
 - indirect interview
 - All of these
285. Class with zero frequencies are called
- Nil class
 - Empty class
 - Class
 - None of these
286. If $P(A) = p$ and $P(B) = q$, then
- $P(A/B) \leq q/p$
 - $P(A/B) \geq p/q$
 - $P(A/B) \leq p/q$
 - $P(A/B) \geq q/p$
287. In a class, there are 15 boys and 10 girls, 3 students are selected at random. What is the probability that the first is boy and the second and third are girls?
- 9/92
 - 1/25
 - 3/5
 - 3/15
288. Kautilya had kept record of births and death in his famous book
- Kautilyashastra
 - Arthikshastra
 - Arthashastra
 - None of these
289. In ground frequency distribution. If the class interval gap is unequal, then which dispersion is more appropriate?
- Quartile deviation
 - Range
 - Mean deviation
 - Standard deviation
290. Between 1990 and 2000, the price of a commodity increased by 60% while the production decreased by 30%. By what percentage did the value index production of commodity change in 2000 with respect to its value 1990?
- 10%
 - 15%
 - 12%
 - None of these
291. The average age of 24 students and the class teacher is 16yr. If the class teacher age is excluded, the average reduces by 1 yr. What is the age of the class teacher?
- 50yr
 - 40yr
 - 60 yr
 - None of these
292. The rate of interest for the first 2yr is 3% per annum, for the next 3 yr is 8% per annum and for the period beyond 5yr, 10 % per annum. If a man gets Rs 1520 as a simple interest fore 6yr. How much money did the deposit?
- Rs. 3800
 - Rs 3000
 - Rs 4000
 - None of these
293. A sum of money is put at compound interest for 2yr at 20% per annum. It would earn Rs 482 more, if the interest were payable half-yearly than it were payable yearly, then the sum is
- Rs 20000
 - Rs 25000
 - Rs 26000
 - None of these
294. Caption mean
- the self explanatory and brief title
 - the subheading of the columns
 - the raw headings
 - none of these
295. 40% of the student passed in Statistic, 35% of the student passed in Economics where as 40% failed in both subjects. If a student is selected at random. What is the probability that he passed in both the subject?
- 0.15
 - 0.05
 - 0.20
 - 0.25
296. If $CV = 50\%$, $\Sigma x_i = 80$ and $\Sigma x_i^2 = 800$, then number of observations are
- 80
 - 10
 - 50
 - Not possible
297. The amount of an ordinary annuity of Rs 6000 payable at the end of each 3 months for 4yr, compounded at 8%
- Rs 84060
 - Rs 86040
 - Rs 80460
 - None of these
298. Number of times the data value is respected is called
- Observation
 - Frequency
 - Repetition
 - None of these
299. Three unbiased coins are tossed simultaneously. The variance of number of the head is
- 1.5

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- b. 3.00
- c. 0.75
- d. None of these

300. Mr Pramod deposits in his recurring account rs 40000 on 1st April every year. if the rate of interest is 15%, then the total amount after 20yr is

- a. Rs 1952286.5
- b. Rs 1592286.5
- c. Rs 1295286.5
- d. Rs None of these