STATISTICS FOR TOURISM

BTS (I YEAR SEM - 1)
Multiple choice questions

1. The median of a series is 10. Two additional observations 8 and 15 are added to the series. The median of the new series will be _____
   a. 8
   b. 15
   c. 11
   d. 10
2. If the mean ages of a group of boys is 20 years, then the mean of their ages after 2 years is _____

a. 20
b. 22
c. 10
d. None of these

3. The median of a frequency distribution is graphically with the help of _____-

a. Graph
b. Ogive
c. Mode
d. None of these

4. Find the value of x, if the mode of the data is 25.
   15,20,25,18,14,15,25,15,18,16,20,25,20,x

a. 20
b. 10
c. 25
d. None of these

5. Two types of ogives meet at _____

a. Mode
b. Mean
c. Median
d. None of these

6. If mode is ill defined,then mode = _____
7. In the case of symmetric distribution is _____
8. Mean =80,Median = 75, Mode = ?

a. 60
b. 65
c. 70
d. 75

9. The mode of a frequency distribution can be determined graphically by
a. Median
b. Ogive
c. Histogram
d. None of these

10. Calculate median 35,23,45,50,80,61,92,40,52,61
a. 23
b. 50
c. 80
d. 51

11. Find the range and the coefficient of range for the following values
25,32,85,32,42,10,20,18,28
a. 25
b. 85
c. 10
d. 75

12. Variance= _____
a. S.D
b. X
c. C.V
d. $S.D^2$

13. If all the values of a series are multiplied by 5 what happens to the S.D
a. Decreasing by 5
b. Increasing by 5
c. Multiplied by 5
d. None of these

14. For a frequency distribution M.D from mean is completed by _____
a. ∑x/n
b. ∑fx/n
c. ∑f|d|/n
d. None of these

15. The mean duration from the median is _____-

16. The mean duration of the series : a,a+d,a+2d,……,a+2n from its mean is
a. n(n-1)

b. n(n-1)/2
c. n(n+1)/2
d. n(n+1)d/2n+1

17. Find the sum of the duration of the variable values 3,4,6,8,14 from their mean
a. 3
b. 4
c. 8
d. 7

18. The varience of 15 observations is 4, if each observation is increased by 9, the varience of the resulting observation is
a. 8
b. 16
c. 4
d. None of these

19. Find the value of third quartile if the values of first quartile and quartile deceiation are 104 & 108 respectively
a. 120
b. 70
c. 110
d. 140

20. Mean deceiation which is calculatedis
a. Mean
b. Median
c. Mode
d. None of these

21. Find the probable error if r=0.6 and n=64
a. 0.8
b. 0.7
c. 64
d. 0.43

22. Maximum positive value of coefficient of correlation is _____-
a. 0
b. 1
c. 2
d. None of these

23. If correlation coefficient r is –ve, both the regression coefficients are _____
a. + ve
b. 0

c. – ve
d. None of these

24. When the values of two variables change in the same direction, there is _____correlation

a. + ve
b. – ve
c. Perfect
d. None of these

25. The coefficient of correlation is independent of _____-
26. The value of r lies between _____
27. If each value value of data is reduced by 10, the correlation coefficient between resulting values _____
28. Probable error helps to know the _____ of correlation coefficient
29. If the correlation coefficient is less than probable error, the correlation coefficient is ___
30. When r=0.9,the correlation is _____
31. The functional relationship of a dependant variable with independent variable is called _____
32. If there are two or more independent variables in a regression equation, it is named as _____ regression.
33. If the variables x and y are independent ,the value of regression coefficient is _____
34. If the variable U and Y are independent, the value of regression coefficient is _____
35. If ʃ=±, the two regression lines are_____
36. If ʃ=0, the two lines of regression are at an angle of _____
37. If the correlation coeffiaient is zero, both bya and bxy are_____
38. Both the regression coefficient cannot exceed _____
39. If one regression coefficient is negative, the other would be _____
40. If byx= -0.9 bxy = -0.4 then r=_____
41. A time series is a set of date recorded
42. The time series analysis helps
43. A time series consists of
    a. two components
    b. three components
    c. four components
    d. none of the above
44. The forecarts on the bacis of a time series are

a. Cent per unit time

b. true to great extent
c. Never true
d. True to some extend

45. The component of a time series attached to long term variations is termed as:

a. cyclic variation
b. secula
c. irregular variation
d. all the above

46. The component of a time series which is attached to short term fluctuations is

a. seasonal variation
b. cyclic variation
c. irregular variatio
d. allthe above

47. A lock-out in a factory for a month is associated with the component of a time series is :

a. irregular movement
b. secular trend
c. cyclic variation
d. none of these

48. The sales of departmental stre on onam and Christmas are associated with the component of a time series

a. secular trend
b. seasonal variation
c. irregular variation
d. all the above

49. Secular trend is indicative of long term variation towards

a. increase only
b. decrease only
c. either increase or decrease
d. none of the above

50. seasonal variation means the variations occurring within

a. a number of year
b. parts of a year
c. parts of a month
d. none of the above

e. 51. Index number is a _____

a. measure of relative changes.
b. a special type of an average.
c. a percentage relative
d. all the above

52. Index numbers are expressed:

a. in percentages
b. in ratios
c. in terms of absolute value
d. all the above

53. Index numbers help

a. in framing of economic policies
b. in assessing the purchasing power of mony
c. for adjusting national income
d. all the above

54. The best average for constructing an index numbers is _____

a. Arithmetic mean
b. Harmonic mean
c. Geometric mean
d. weighted mean

55. Index no. for the base period is always taken as

a. 200
b. 50
c. 1
d. 100

56. _____ play a very important part in the construction of index numbers.

a. weights
b. classes
c. c.estinations
d. none

57. Index numbers show _____ changes rather than absolute changes.

a. relative
b. percentage
c. both

d. none

58. Index number is equal to_____

a. sum of price relatives
b. average of the price relatives
c. product of price relative
d. none

59. Laspeyer's index formula use the weights of the

a. base year
b. current year
c. average of the weights of a number of year
d. none of the above

60. If the index number is independent of the units of measurement ,then it satisfies

a. time reversal test
b. factor reversal test
c. unit test
d. all the above

61. Statistics is defined in terms of numerical data in the_____

a. singular sense
b. plural sense
c. either a or b
d. both a and b

62. Statistics is applied in _____

a. economics
b. business management
c. commerce and industry
d. all the above

63. Which of the following represents statistics

a. a single value
b. only two values in a set
c. a group of values in a set
d. none of these

64. Statistics deals with

a. qualitative information
b. quantitative information
c. both
d. none of these

65. Statistical data are collected

a. without any purpose
b. for a given purpose
c. any purpose
d. none of these

66. Statistical results are

a. absolutely correct
b. not true
c. true on an average
d. universally true

67. Statistics does not study

a. individuals
b. groups
c. aggregates
d. all above

68. Statistics are

a. aggregates of facts
b. numerically expressed
c. systematically collected
d. all above

69. Statistical methods

a. collection of data
b. classification
c. analysis and inter correlation of data
d. all these

70. Statistics is _____

a. an art
b. a science

c. both
a. b. none of these

71. The mean of a observation is x. If k is added to each observation then new mean is_____

a. x
b. x+k
c. x-k
d. kx

72. Mean deviation which is calculated is minimum at

a. mean
b. median
a. c.mode
b. d.all of these

73. Find the sum of the deviation of the variable values 3,4,6,8,14 from their mean

a. a.5
b. 0
c. 1
d. 7

74. Method of least squares to fit in the trend is applicable only if the trend is_____

a. linex
b. parabolic
c. both a & b
d. neither a nor c

75. If the prices of all commodities in a place have increased 1.25 times more on the base period price.

The index number of prices of that place is now

a. 125
b. 150
c. 225
d. None of these

ANSWERS

1. D 2. B 3. B 4. C 5.C 6. mean = median = mode 7. Mean = Median = Mode 8. B 9. C 10. D 11. D 12. D 13. C 14. C 15. Less than that

measured from any value 16. D 17. D 18. C 19. D 20. B 21. D 22. B 23. C 24. A 25. rigin 26. -1 & +1 27. Remains same 28. The significance 29. Not significant 30. Very high positive 31. Regression Eqn. 32. Multiple 33. <1 34.0 35. Coincident 36. 9 0 degree 37. 0 38. 1 39. - ve 40. -0.6 41. 42. 43. C 44. B 45. B 46. D 47. A 48. 49. C 50. B 51. D 52. A 53. D 54. C 55. D 56. A 57. B 58. B 59. A 60. C 61. B 62. D 63. C 64. B 65. B 66. C 67. A 68. D 69. D 70. C 71. B 72. B 73. B 74. C 75. C