1.

The following sentence contains which type of conjunction? - "She is not only a great singer but also an exceptional dancer."

a.

Coordinating

b.

Subordinating

c.

Phrasal

d.

Correlative

Answer: “Correlative”

2.

Identify the segment in the sentence, which contains the grammatical error: Yesterday I searched in every my cupboard for the shirt I couldn’t find.

a.

in every my cupboard

b.

Yesterday I search

c.

I couldn't find

d.

Cupboard

Answer: “in every my cupboard”

3.

Select the synonym of gaudy

a.

modest

b.

sophisticated

c.

showy correct

d.

refined

Answer: “showy correct”

4.

choose the correct appropriate option
The roads at 15000 feet are not easily navigable and air is _ and freezing

a.

exalted

b.

rarefied

c.

elevated

d.

intensified

Answer: “rarefied”

5.

Choose the correct verb for: The earth _ round the sun.

a.

none of these

b.

Moved

c.

Moves

d.

Move

Answer: “Moves”

6.

In the sentence identify the segment which contains the grammatical error: You may left the class when you have completed the test.

a.

you may left

b.

the class

c.

when you have

d.

completed the test

Answer: “you may left”

7.

Select the synonym of deprive

a.

endow

b.

dispossess

c.

confer

d.

bestow

Answer: “dispossess”

8.

_____ pompous he was an entertaining person.

a.

Never

b.

Despite

c.

Before

d.

Though

Answer: “Though”

9.

Generic is most similar in meaning to

a.

Specific

b.

Trademarked

c.

Basic

d.

Branded

Answer: “Basic”

10.

Select the correct indirect form of the given sentence: The teacher said to me, “You have not submitted the assignment.”

a.

The teacher told me that I had not submitted the assignment.

b.

The teacher said to me that I have not submitted the assignment.

c.

The teacher said me that I had not submitted the assignment

d.

The teacher told to me that I have not submitted that assignment.

Answer: “The teacher told me that I had not submitted the assignment.”

11.

A person who writes books is called

a.

Anthropologist

b.

Archeologist

c.

Author

d.

Dendrologist

Answer: “Author”

12.

Which of the following is the MOST OPPOSITE in meaning to the given word - Interim

a.

Tentative

b.

Medieval

c.

Permanent

d.

Interval

Answer: “Permanent”

13.

Select the most appropriate word to fill in the blank: He _____ a heinous crime.

a.

Occurred

b.

Committed

c.

Happened

d.

Made

Answer: “Committed”

14.

In the sentence identify the segment which contains the grammatical error: The length of a male swallow's tail reveal his attractiveness for a female swallow.

a.

his attractiveness for

b.

The length of

c.

a male swallow's tail reveal

d.

a female swallow

Answer: “a male swallow's tail reveal”

15.

Read each sentence to find out whether there is any error in any part: (a) As you know (b)that the ignorant (c) are easily duped (d) No error.

a.

a

b.

b

c.

c

d.

d

Answer: “c”

16.

Which value is reflected in Heracles?

a.

disobeying the rules to achieve one’s goals.

b.

disobeying the gods to follow one’s path.

c.

taking care of one’s children.

d.

taking responsibility for one’s actions

Answer: “taking responsibility for one’s actions”

17.

Correction of sentences: What your Surname is?

a.

None of all mentioned

b.

Your Surname is what?

c.

What your Surname?

d.

What is your Surname?

Answer: “What is your Surname?”

18.

Select the most appropriate meaning of the given idiom: Let off the hook

a.

No made to wait for a long time

b.

Allowed to escape from blame

c.

Not allowed to take part in an activity

d.

Made to pay for one's actions

Answer: “Allowed to escape from blame”

19.

Select the synonym of to visualise

a.

to anticipate

b.

to scorn

c.

to repudiate

d.

to eschew

Answer: “to anticipate”

20.

Improve the bracketed part of the sentence: The guide's (knowledge) of the history of the monument surprised me.

a.

familiarity

b.

no improvement

c.

knowing

d.

know how

Answer: “no improvement”

21.

The Summer Olympics 2024 will be hosted in

(A)

China

(B)

France

(C)

United Kingdom

(D)

United States

Answer: “France”

22.

The world record to summit K2 in winter for the first time was made by the climbers from

(A)

China

(B)

Italy

(C)

Switzerland

(D)

Nepal

Answer: “Nepal”

23.

Which building in the United states was stormed by protesters on 7 January 2021?

(A)

White House

(B)

Supreme Court

(C)

Pentagon

(D)

Capitol

Answer: “Capitol”

24.

The 2022 Nobel Prize in Physiology or Medicine was won by

(A)

Ardem Patapoutian

(B)

Harvey J. Alter

(C)

Charles M. Rice

(D)

Svante Paabo

Answer: “Svante Paabo”

25.

Nobel Prize is awarded annually in _____ fields.

(A)

6

(B)

7

(C)

8

(D)

9

Answer: “6”

26.

Which of the following country is the closest ally of Russia?

(A)

Poland

(B)

Ukraine

(C)

Georgia

(D)

Belarus

Answer: “Belarus”

27.

In May 2020, United States launched spaceflight from its own soil after a decade. The spacecraft was built by

(A)

Apple

(B)

Amazon

(C)

NASA

(D)

SpaceX

Answer: “SpaceX”

28.

Who is the current managing director of International Monetary Fund (IMF)?

(A)

Kristalina Georgieva

(B)

Jim Yong Kim

(C)

Christine Lagarde

(D)

David Lipton

Answer: “Kristalina Georgieva”

29.

The United Nations Framework Convention on Climate Change deals with

(A)

reduction in fossil fuel usage

(B)

CO_2 emissions mitigation

(C)

reduction in Uranium production

(D)

greenhouse gases emissions mitigation

Answer: “greenhouse gases emissions mitigation”

30.

Aksai Chin is a disputed area between

(A)

China and India

(B)

China and Pakistan

(C)

India and Pakistan

(D)

India and Nepal

Answer: “China and India”

31.

Merchant' is related to 'Trade' in the same way as 'Doctor' is related to:

(a)

Medicine

(b)

Prescription

(c)

Healing

(d)

Examination

Answer: “Examination”

32.

'Fish’ is related to 'Pisciculture' in the same way as 'Bees' is related to:

(a)

Horticulture

(b)

Apiculture

(c)

Sericulture

(d)

Viticulture

Answer: “Apiculture”

33.

Out of the four options given below, three are of a kind while one does not belong to the group. Choose the one which is unlike the others.

(a)

Circle: arc

(b)

TV: Screen

(c)

Book: Cover

(d)

Laptop: Charger

Answer: “Laptop: Charger”

34.

What will come in place of the question mark in the following number series?
114 115 107 134 70 ?

(a)

140

(b)

35

(c)

195

(d)

150

Answer: “195”

35.

In a certain code, WORKABLE is written as VOYZPILD, how will BLUNDERS be written in same code?

(a)

CMVOEST

(b)

TSEOVMC

(c)

YOFMWVIH

(d)

HIVWMFOY

Answer: “HIVWMFOY”

36.

Statements: All purses are mobile. All mobile are phones. Some mobile are rings. No ring is purse. Which Conclusion is right?

(a)

Some purse is ring.

(b)

No mobile is ring.

(c)

Some phones are purse.

(d)

All rings are mobile.

Answer: “Some phones are purse.”

37.

D, the son-in-law of B, is the brother-in-law of A who is the brother of C. How is A related to B?

(a)

Brother

(b)

Son

(c)

Father

(d)

None of these

Answer: “Son”

38.

There are seven persons A, B, C, D, E, F and G sitting in a line facing west. E is to the immediate right of G. B is at one of the extreme ends and has E as his neighbour. G is between E and F. C is sitting second from the south end. Who is sitting at the southern end?

(a)

A

(b)

B

(c)

C

(d)

E

Answer: “A”

39.

A man starts walking towards Northeast diagonally from the left corner of a square plot and turns right after reaching the center of the plot. After some distance, he again turns right and continues walking. Which direction is he facing now?

(a)

East

(b)

West

(c)

South

(d)

North

Answer: “South”

40.

Ankit is cleverer than Sujay. Akash is cleverer than Ankit, but not more than Puja. Payal is the cleverest of them all. If they are arranged in ascending order of cleverness, then who among the following will hold the middle position?

(a)

Ankit

(b)

Sujay

(c)

Akash

(d)

Puja

Answer: “Sujay”

41

E(X) = λ is used for which distribution?

A.

Binomial distribution

B.

Poisson's distribution

C.

Bernoulli's distribution

D.

Laplace distribution

Answer: “Poisson's distribution”

42

The Mean of a constant 'x' is

A.

0

B.

x/2

C.

x

D.

1

Answer: “x”

43

If P(x) = 0.8 and x = 3, then find the value of E(x)

A.

2.6

B.

2.8

C.

2.2

D.

2.4

Answer: “2.4”

44

What is the arithmetic mean of the data set: 4, 5, 0, 10, 8, and 3?

A.

4

B.

5

C.

6

D.

7

Answer: “5”

45

Which of the following cannot be the probability of an event?

A.

0

B.

0.3

C.

0.9

D.

1.2

Answer: “1.2”

46

What is the geometric mean of: 1, 2, 8, and 16?

A.

4

B.

5

C.

6

D.

7

Answer: “4”

47

Which test is applied to Analysis of Variance (ANOVA)?

A.

t test

B.

z test

C.

F test

D.

χ2 test

Answer: “F test”

48

Which of the following statements best describes statistics?

A.

The study of mathematical algorithms

B.

The study of collecting, analyzing, interpreting, and presenting data

C.

The study of probability and random processes

D.

The study of geometric shapes and patterns

Answer: “The study of collecting, analyzing, interpreting, and presenting data”

49

In autoregressive models _____ ?

A.

Current value of dependent variable is influenced by current values of independent variables

B.

Current value of dependent variable is influenced by current and past values of independent variables

C.

Current value of dependent variable is influenced by past values of both dependent and independent variables

D.

None of all mentined

Answer: “Current value of dependent variable is influenced by past values of both dependent and independent variables”

50

What is the purpose of determining the trend in time series analysis?

A.

To identify long-term changes

B.

To measure seasonality

C.

To calculate autocorrelation

D.

To forecast future values

Answer: “To identify long-term changes”

51

Which method is used for smoothing the data in time series analysis?

A.

Moving Average

B.

Linear Regression

C.

Principal Component Analysis

D.

Cluster Analysis

Answer: “Moving Average”

52

Which method is used for determining the trend using historical data?

A.

Method of Least Squares

B.

Exponential Smoothing

C.

Autoregressive Integrated Moving Average (ARIMA)

D.

Seasonal Decomposition of Time Series (STL)

Answer: “Method of Least Squares”

53

How can seasonal indices be computed?

A.

By Simple Average

B.

By Weighted Average

C.

By Exponential Smoothing

D.

By Autocorrelation Function (ACF)

Answer: “By Simple Average”

54

Which method is used for forecasting time series data?

A.

Moving Average

B.

Exponential Smoothing

C.

Autoregressive Integrated Moving Average (ARIMA)

D.

Seasonal Decomposition of Time Series (STL)

Answer: “Exponential Smoothing”

55

How is the seasonal component adjusted in additive decomposition?

A.

Subtracted from the time series

B.

Multiplied with the time series

C.

Divided by the time series

D.

No adjustment is made

Answer: “Subtracted from the time series”

56

Which method is used for calculating the exponential trend in time series?

A.

Exponential Smoothing

B.

Moving Average

C.

Method of Least Squares

D.

Autoregressive Integrated Moving Average (ARIMA)

Answer: “Exponential Smoothing”

57

A circle divided into sectors to represent the relative frequencies of different classes is defined as:

A.

Bar diagram

B.

Pie diagram

C.

Line diagram

D.

Frequency polygon

Answer: “Pie diagram”

58

Which of the following is a graphical representation used to display categorical data?

A.

Histogram

B.

Line diagram

C.

Bar diagram

D.

Frequency polygon

Answer: “Bar diagram”

59

The construction of a frequency distribution involves:

A.

Counting the number of observations

B.

Organizing data into groups or classes

C.

Plotting data points on a graph

D.

Calculating the mean of the data

Answer: “Organizing data into groups or classes”

60

Which of the following graphical representations uses rectangles to represent the frequency of each class?

A.

Bar diagram

B.

Pie diagram

C.

Line diagram

D.

Histogram

Answer: “Histogram”

61

A frequency polygon is obtained by:

A.

Joining the midpoints of the upper boundaries of each class in a histogram

B.

Joining the frequencies of each class in a bar diagram

C.

Joining the midpoints of the classes in a frequency distribution

D.

Joining the relative frequencies of each class in a pie diagram

Answer: “Joining the midpoints of the classes in a frequency distribution”

62

Which of the following graphical representations uses a circle divided into sectors to represent the relative frequencies of different categories?

A.

Bar diagram

B.

Pie diagram

C.

Line diagram

D.

Frequency polygon

Answer: “Pie diagram”

63

The cumulative frequency distribution is obtained by:

A.

Adding the frequencies of each class in a frequency distribution

B.

Dividing the frequencies of each class in a frequency distribution by the total number of observations

C.

Joining the frequencies of each class in a bar diagram

D.

Joining the relative frequencies of each class in a pie diagram

Answer: “Adding the frequencies of each class in a frequency distribution”

64

Which of the following is a graphical representation used to display numerical data?

A.

Histogram

B.

Bar diagram

C.

Pie diagram

D.

Line diagram

Answer: “Histogram”

65

Which type of index number assigns equal weights to all items?

A.

Fixed Base Index

B.

Chain Base Index

C.

Weighted Index

D.

Unweighted Index

Answer: “Unweighted Index”

66

Which type of index number assigns different weights to different items?

A.

Fixed Base Index

B.

Chain Base Index

C.

Weighted Index

D.

Unweighted Index

Answer: “Weighted Index”

67

Which index number is commonly used to measure changes in the prices of goods and services used in the production process?

A.

Consumer Price Index (CPI)

B.

Producer Price Index (PPI)

C.

Wholesale Price Index (WPI)

D.

Gross Domestic Product (GDP) Deflator

Answer: “Producer Price Index (PPI)”

68

Which index number is commonly used to measure changes in the prices of goods and services purchased by households?

A.

Consumer Price Index (CPI)

B.

Producer Price Index (PPI)

C.

Wholesale Price Index (WPI)

D.

Gross Domestic Product (GDP) Deflator

Answer: “Consumer Price Index (CPI)”

69

Which method of index number construction assigns different weights to different items?

A.

Simple Aggregative Method

B.

Weighted Aggregative Method

C.

Dutot's Method

D.

Fisher's Ideal Index Number

Answer: “Weighted Aggregative Method”

70

What is the purpose of the Laspeyres index?

A.

To measure changes in the prices of goods and services at the retail level

B.

To measure changes in the prices of goods and services at the wholesale level

C.

To measure changes in the prices of goods and services at the producer level

D.

To measure changes in the overall level of prices in an economy

Answer: “To measure changes in the prices of goods and services at the retail level”

71

What is the purpose of the Paasche index?

A.

To measure changes in the prices of goods and services at the retail level

B.

To measure changes in the prices of goods and services at the wholesale level

C.

To measure changes in the prices of goods and services at the producer level

D.

To measure changes in the overall level of prices in an economy

Answer: “To measure changes in the prices of goods and services at the producer level”

72

What is the purpose of the Fisher's ideal index number?

A.

To measure changes in the prices of goods and services at the retail level

B.

To measure changes in the prices of goods and services at the wholesale level

C.

To measure changes in the prices of goods and services at the producer level

D.

To measure changes in the overall level of prices in an economy

Answer: “To measure changes in the overall level of prices in an economy”

73

The standard deviation is the square root of:

A.

Variance

B.

Mean

C.

Median

D.

Range

Answer: “Variance”

74

Which of the following measures is used to measure the asymmetry of a distribution?

A.

Mean

B.

Median

C.

Mode

D.

Skewness

Answer: “Skewness”

75

Positive skewness indicates that:

A.

The distribution is symmetric

B.

The right tail of the distribution is longer

C.

The left tail of the distribution is longer

D.

The distribution has no outliers

Answer: “The right tail of the distribution is longer”

76

Negative skewness indicates that:

A.

The distribution is symmetric

B.

The right tail of the distribution is longer

C.

The left tail of the distribution is longer

D.

The distribution has no outliers

Answer: “The left tail of the distribution is longer”

77

Kurtosis measures:

A.

The spread of the distribution

B.

The symmetry of the distribution

C.

The presence of outliers

D.

The shape of the distribution's tails

Answer: “The shape of the distribution's tails”

78

A distribution with positive kurtosis:

A.

Has a flatter peak and lighter tails

B.

Has a sharper peak and heavier tails

C.

Is symmetric

D.

Has no outliers

Answer: “Has a sharper peak and heavier tails”

79

A distribution with negative kurtosis:

A.

Has a flatter peak and lighter tails

B.

Has a sharper peak and heavier tails

C.

Is symmetric

D.

Has no outliers

Answer: “Has a flatter peak and lighter tails”

80

Which of the following measures is used to measure the flatness or peakedness of a distribution?

A.

Mean

B.

Median

C.

Mode

D.

Kurtosis

Answer: “Kurtosis”

81

The dependent variable may also be known as:

A.

Regression

B.

Regressand

C.

continuous variable

D.

Independent

Answer: “Regressand”

82

To determine the height of a person when his weight is given is:

A.

Correlation problem

B.

Assortation problem

C.

Regression problem

D.

Qualitative problem

Answer: “Regression problem”

83

The predicted rate of response of the dependent variable to changes in the independent variable is called:

A.

Slope

B.

Intercept

C.

Error

D.

Regression equation

Answer: “Slope”

84

The value we would predict for the dependent variable when the independent variables are all equal to zero is called:

A.

Slope

B.

Sum of residual

C.

Intercept

D.

Difficult to tell

Answer: “Intercept”

85

All data points falling along a straight line is called:

A.

Linear relationship

B.

Non linear relationship

C.

Residual

D.

Scatter

Answer: “Linear relationship”

86

The variance of a random variable measures:

A.

The spread or dispersion of the variable

B.

The average value of the variable

C.

The probability of the variable taking on a specific value

D.

The slope of the variable's distribution function

Answer: “The spread or dispersion of the variable”

87

Which of the following is a measure of the central tendency of a random variable?

A.

Variance

B.

Standard deviation

C.

Skewness

D.

Median

Answer: “Median”

88

The moment generating function (MGF) of a random variable provides information about its:

A.

Probability density function

B.

Cumulative distribution function

C.

Moments

D.

Variance

Answer: “Moments”

89

If two random variables have the same moment generating functions, then:

A.

They have the same probability density functions

B.

They have the same expected values

C.

They have the same variances

D.

They are independent

Answer: “They have the same probability density functions”

90

The characteristic function of a random variable is the Fourier transform of its:

A.

Probability density function

B.

Cumulative distribution function

C.

Moment generating function

D.

Variance

Answer: “Probability density function”

91

Which of the following is an example of a discrete probability distribution?

A.

Normal distribution

B.

Exponential distribution

C.

Poisson distribution

D.

Uniform distribution

Answer: “Poisson distribution”

92

In a binomial distribution, the number of successes is determined by:

A.

A continuous random variable

B.

A discrete random variable

C.

A continuous distribution function

D.

A cumulative distribution function

Answer: “A discrete random variable”

93

Which of the following is an example of a continuous probability distribution?

A.

Geometric distribution

B.

Bernoulli distribution

C.

Uniform distribution

D.

Hypergeometric distribution

Answer: “Uniform distribution”

94

The standard deviation of a random variable is the square root of its:

A.

Variance

B.

Mean

C.

Median

D.

Mode

Answer: “Variance”

95

Which of the following is true about the normal distribution?

A.

It is a discrete distribution

B.

It is symmetric and bell-shaped

C.

It has a fixed range of values

D.

It does not have a mean or variance

Answer: “It is symmetric and bell-shaped”

96

Who provided the definition for probability?

A.

Archimedes

B.

Einstein

C.

Euclid

D.

Simon Laplace

Answer: “Simon Laplace”

97

The annual salaries of workers in a manufacturing factory are normally distributed with a mean of Rs. 48,000 and a standard deviation of Rs. 1500. Find the probability of workers who earn between Rs. 35,000 and Rs. 52,000.

A.

0.2

B.

0.421

C.

0.64

D.

0.762

Answer: “0.421”

98

Which distribution has a constant probability density function over a specified range?

A.

Binomial Distribution

B.

Poisson Distribution

C.

Normal Distribution

D.

Uniform Distribution

Answer: “Uniform Distribution”

99

Which theorem describes the shape of the sampling distribution of a statistic as the sample size increases?

A.

Central Limit Theorem

B.

Law of Large Numbers

C.

Bayes' Theorem

D.

Chebyshev's Inequality

Answer: “Central Limit Theorem”

100

Which theorem provides an upper bound for the probability that a random variable deviates from its mean by a certain number of standard deviations?

A.

Central Limit Theorem

B.

Law of Large Numbers

C.

Bayes' Theorem

D.

Chebyshev's Inequality

Answer: ‘Chebyshev's Inequality”