1

Sangai Festival is celebrated in which state of India?

(A)
Bihar
(B)
Manipur
(C)
Karnataka
(D)
Assam

Answer: Manipur

2

Consider the following statements about Sikh Gurus:

1. Banda Bahadur was appointed as the military leader of the Sikhs by Guru Tegh Bahadur.
2. Guru Arjan Dev became the Sikh Guru after Guru Ram Das.
3. Guru Arjan Dev gave to Sikhs their own script- Gurumukhi.

Which of the statements given is/are correct?

(A)
1 and 2
(B)
2 and 3
(C)
1 only
(D)
1 and 3

Answer: 1 and 2

3

‘Tamasha’ is the famous folk form of musical theatre in

(A)
Punjab
(B)
Bihar
(C)
Uttar Pradesh
(D)
Maharashtra

Answer: Maharashtra

4

What is the Jewish place of worship called?

(A)
Synagogue
(B)
None of these
(C)
Church
(D)
Mosque

Answer: Synagogue

5

Who laid the foundation of the ‘School of Possibilism’?

(A)
La Blache
(B)
Ratzel
(C)
Brunches
(D)
Humboldt

Answer: La Blache

6

Who composed ‘Jana Gana Mana’?

(A)
Rabindra Nath Tagore
(B)
Bankim Chandra Chatterjee
(C)
Sarojini Naidu
(D)
Aurobindo Ghosh

Answer: Rabindra Nath Tagore

7

Who is the author of the book Long Walk to Freedom?

(A)
Louis Fischer
(B)
Mao Tse Tung
(C)
Nelson Mandela
(D)
Aung Sang Su Kyi

Answer: Nelson Mandela

8

The book ‘Long walk to Freedom’ is written by

(A)
Benazir Bhutto
(B)
Nawaz Sharif
(C)
Sonia Gandhi
(D)
Nelson Mandela

Answer: Nelson Mandela

9

Which of the following is different from the others?

(A)
Shaurya Chakra
(B)

Ashok Chakra
(C)
Vir Chakra
(D)
Kirti Chakra

Answer: Vir Chakra

10

Bharat Ratna is the highest Civilian Award of India which was first given in the year and to the person.

(A)
The year 1948 - C.V. Raman
(B)
The year 1953 - V. Krishnamurthy
(C)
The year 1952 - Lata Mangeshkar
(D)
The year 1954 - Dr. Radhakrishnan

Answer: The year 1954 - Dr. Radhakrishnan

11

Consider the following statements given below regarding Arjuna Awards 2014 and select which is/are correct?

1. Arjuna Awards is given to sportspersons for their consistent outstanding performance for 5 years preceding the year of award.
2. Arjuna Awards carry a cash prize of 7 lakh rupees, a statuette and a citation.

Choose the appropriate option from those given below:

(A)
Only 2
(B)
Both 1 and 2
(C)
Only 1
(D)
Neither 1 nor 2

Answer: Neither 1 nor 2

12

Which of the following received the outstanding Parliamentarian Award for the year 2010?

(A)
Karan singh
(B)
Arun Jaitley
(C)
Sharad Yadav.
(D)
Jaswant Singh

Answer: Arun Jaitley

13

Which of the following is used as a logo of the World Wide Fund (WWF) for Nature?

(A)
Deer
(B)
Lion
(C)
Panda
(D)
Camel

Answer: Panda

14

The UN has recently passed a resolution against human right violation in a South Asian country. Which of the following was the country?

1. India
2. Pakistan
3. Sri Lanka

Select the answer from the codes given below.

(A)
3 only
(B)
2 only
(C)
1 only
(D)
None

Answer: 3 Only

15

Which one of the following statements about NATO is not correct?

(A)
Turkey is a member of NATO.
(B)
The US is an ex-officio member of NATO.
(C)
NATO is a collective defence organization in Europe.
(D)
NATO has 28 independent member states.

Answer: The US is an ex-officio member of NATO.

16

Which country decided to join the United Nations, as a Member, on the basis of the results of a referendum held in the country?

(A)
Switzerland
(B)
Finland
(C)
Belgium
(D)
Austria

Answer: Switzerland

17

Consider the following statements:

1. ‘Bolt has defended 100 m, 200 m and 4 × 100 m. Gold in Beijing and London Olympics
2. Michel Phelps is associated with swimming.
3. Phelps holds world record for winning most olympic gold medals.

Which of the statements given above is/are correct?

(A)
1and 3
(B)
None of these
(C)
2 and 3
(D)
1, 2 and 3

Answer: 1, 2 and 3

18

“Bull’s eye” is used in the game of

(A)
Polo
(B)
Basketball
(C)
Shooting
(D)
Boxing

Answer: Shooting

19

How far did the Indian Team reach in the Women’s Cricket World Cup Tournament 2005 held in South Africa?

(A)
Quarter-finals
(B)
Semifinals
(C)
Preliminary round
(D)
Finals

Answer: Finals

20

Who among the following Tennis players has won the Shanghai Masters Title?

(A)
Gilles Simon
(B)
Rafael Nadal
(C)
Andy Murray
(D)
Roger Federer

Answer: Roger Federer

21.

Choose the one which best expresses that the meaning of the given words.
“DILATE”

(A)
spin
(B)
weaken
(C)
widen
(D)
push

Answer: widen

22.

Choose the one which best expresses that the meaning of the given words.
“ABROGATE”

(A)
elope
(B)
gate-crash
(C)
abolish
(D)
destroy

Answer: abolish

23.

Choose the word opposite (or) ANTONYMS in meaning to the given word as your answer.
“NOVEL”

(A)
naughty
(B)
novelist
(C)
banal
(D)
nasty

Answer: banal

24.

Choose the word opposite (or) ANTONYMS in meaning to the given word as your answer.
“HARMONIOUS”

(A)
sonorous
(B)
discordant
(C)
concordant
(D)
balanced

Answer: discordant

25.

In the following questions, four words have been written out of which three are correctly spelt and one is wrongly spelt. find out the misspelt word from among the groups of four words.

(A)
personel
(B)
personnel
(C)
notional
(D)
nationalist

Answer: personel

26

In the following questions, four words have been written out of which three are correctly spelt and one is wrongly spelt. find out the misspelt word from among the groups of four words.

(A)
prefer
(B)
defer
(C)
difer
(D)

refer

Answer: difer

27.

Out of the four alternatives, choose the one which can be substituted for the given words/sentence
“Action that is likely to make people very angry”

(A)
inflationary
(B)
inflammable
(C)
commensurable
(D)
inflammatory

Answer: inflammatory

28.

Out of the four alternatives, choose the one which can be substituted for the given words/sentence
“A humorous drawing dealing with current events or politics.”

(A)
sketch
(B)
illustration
(C)

cartoon
(D)
skit

Answer: cartoon

29.

In each of the following questions four words are given of which two are most nearly the same or opposite in meaning. Find the two words which are most nearly the same or opposite in meaning, From the below given options which has the letters represents its meanings with combination.

(A) Effeminacy (B) Effrontery
(C) Effervescence (D) Impertinence

(A)
B-D
(B)
C-D
(C)
A-D
(D)
A-B

Answer: B-D

30

In the following questions, one part of the sentence may have an error.
They will (1)/ leave the office at six and (2)/ reach at home by seven. (3)/ No error (4)

(A)
They will
(B)
leave the office at six and
(C)
reach at home by seven.
(D)
No error

Answer: reach at home by seven.

31.

Select the one which best expresses the same sentence in Passive/Active voice.
“We waste much time on trifles.”

(A)
Much time was wasted on trifles.
(B)
Much time will be wasted on trifles.
(C)
Much time is wasted by us on trifle’s.
(D)
Much time is wasted on trifles.

Answer: Much time is wasted by us on trifle’s.

32.

Select the one which best expresses the same sentence in Indirect/Direct speech.
Mother told me that I should listen to her first and then do anything as I pleased.

(A)
Mother said to me, “He should listen to her first and then do anything he pleases.
(B)
Mother said to me, “You should listen to me first and then do anything I pleased.
(C)
Mother said to me, “You should listen to me first and then do anything as you please.
(D)
Mother said to me, “I should listen to me first and then do anything I please.

Answer: Mother said to me, “You should listen to me first and then do anything as you please.

33.

You must ensure the correctness of the information before_____ to conclusion.

(A)
drawing
(B)
enabling
(C)
leaning
(D)
jumping

Answer: jumping

34.

Do you remember his phone number I **“don’t suspect”** so.

(A)
don’t think
(B)
don’t thing
(C)
may think
(D)
No improvement

Answer: don’t think

35.

She is _____ tired and cannot walk anymore.

(A)
so
(B)
too
(C)
such
(D)
so such

Answer: too

36.

Tania is older _____ Sara, while Rebecca is _____ oldest.

(A)
than, an
(B)
from, the
(C)
then, the
(D)
than, the

Answer: than, the

37.

If Emma _____ earlier, she would always be on time.

(A)
get up
(B)
got up
(C)
had get up
(D)
had got up

Answer: got up

38.

She was watching the television, when he _____ in.

(A)
walk
(B)
walks
(C)
walked
(D)
was walking

Answer: walked

39.

Love is not love/ Which alters when it alterations _____

(A)
seen
(B)
sees
(C)
finds
(D)
meets

Answer: finds

40

Choose the one which conveys the meaning of the sentence correctly.

(A)
Yesterday to collect the pas book I went to the bank.
(B)
To collect the pass book yesterday, I went to the bank.
(C)
I went yesterday to the bank to collect the pass book.
(D)
I went to the bank yesterday to collect the pass book.

Ans: I went to the bank yesterday to collect the pass book.

41

The runs scored by a batsman in 5 ODIs are 31,97,112, 63, and 12. The standard deviation is

(A)
24.79
(B)
23.79
(C)
25.79
(D)
26.79

Answer: 25.79

42

Find the mode of the call received on 7 consecutive day 11,13,13,17,19,23,25

(A)
11
(B)
13
(C)
17
(D)
23

Answer: 13

43

Find the median of the call received on 7 consecutive days 11,13, 17, 13, 23,25,19

(A)
13
(B)
23
(C)
25
(D)
17

Answer: 17

44

If K is the Mean of Poisson distribution, then the standard deviation is given by

(A)
√k
(B)
K2
(C)
K
(D)
k/2

Answer: √k

45

Find the arithmetic mean of the set of data: 6,1,5,8, and 10

(A)
4
(B)
5
(C)
6
(D)
7

Answer: 6

46

Calculate the geometric Mean of 1,3,9,3

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

Answer: 3

47

Which type of data is categorical and can be divided into different categories, but has no inherent order?

(A)
Nominal data
(B)
Ordinal data
(C)
Interval data
(D)
Ratio data

Answer: Nominal data

48

What is the formula for the arithmetic mean (average) of a set of numbers?

(A)
Sum of numbers divided by the count of numbers
(B)
Product of numbers divided by the count of numbers
(C)
Difference of numbers divided by the count of numbers
(D)
Ratio of numbers divided by the count of numbers

Answer: Sum of numbers divided by the count of numbers

49

Consider a dice with the property that that probability of a face with n dots showing up is proportional to n. The probability of face showing 4 dots is?

(A)
17
(B)
542
(C)
121
(D)
421

Answer: 421

50

Runs scored by batsman in 5 one day matches are 50, 70, 82, 93, and 20. The standard deviation is _____

(A)
25.79
(B)
25.49
(C)
25.29
(D)
25.69

Answer: 25.79

51

Find median and mode of the messages received on 9 consecutive days 15, 11, 9, 5, 18, 4, 15, 13, 17.

(A)
13, 6
(B)
13, 18
(C)
18, 15
(D)
15, 16

Answer: 13, 18

52

A coin is tossed up 4 times. The probability that tails turn up in 3 cases is _____

(A)

12
(B)
13
(C)
14
(D)
16

Answer: 12

53

If E denotes the expectation the variance of a random variable X is denoted as?

(A)
(E(X))2
(B)
E(X2)-(E(X))2
(C)
E(X2)
(D)
2E(X)

Answer: E(X2)-(E(X))2

54

X is a variate between 0 and 3. The value of E(X2) is _____

(A)
8
(B)

7
(C)
27
(D)
9

Answer: 9

55

The skewness of a random variable measures its:

(A)
Symmetry
(B)
Dispersion
(C)
Kurtosis
(D)
Shape of the distribution

Answer: Shape of the distribution

56

Which of the following is true about a positively skewed distribution?

(A)
The mean is greater than the median
(B)
The median is greater than the mean
(C)
The mean and median are equal

(D)
The distribution is symmetric

Answer: The mean is greater than the median

57

For geographically base data, the bars are used:

(A)
Vertical
(B)
Zigzag
(C)
Horizontal
(D)
Diagonal

Answer: Horizontal

58

A circle in which sectors represents various quantities is called

(A)
Histogram
(B)
Frequency Polygon
(C)
Pie chart
(D)
Component bar chart

Answer: Pie chart

59

A graphical method of representing the sample points of a multiple-step experiment is

(A)
A frequency polygon
(B)
A histogram
(C)
An ogive
(D)
A tree diagram

Answer: A tree diagram

60

Which of the following graphical representations uses rectangular bars to represent the frequencies of different classes?

(A)
Bar diagram
(B)
Pie diagram
(C)
Line diagram
(D) Frequency polygon

Answer: Bar diagram

61

In a bar diagram, the height of each bar represents:

(A)
The mean of the data
(B)
The median of the data
(C)
The mode of the data
(D)
The frequency of the corresponding class

Answer: The frequency of the corresponding class

62

The histogram is a graphical representation of the:

(A)
Frequency distribution of ungrouped data
(B)
Frequency distribution of grouped data
(C)
Relative frequency distribution of ungrouped data
(D)
Relative frequency distribution of grouped data

Answer: Frequency distribution of grouped data

63

The width of each rectangle in a histogram corresponds to the:

(A)
Frequency of the corresponding class
(B)
Relative frequency of the corresponding class
(C)
Upper boundary of the corresponding class
(D)
Lower boundary of the corresponding class

Answer: Upper boundary of the corresponding class

64

Which of the following graphical representations is obtained by joining the midpoints of the upper boundaries of each class in a histogram?

(A)
Bar diagram
(B)
Pie diagram
(C)
Line diagram
(D)
Frequency polygon

Answer: Frequency polygon

65

Which measure of central tendency includes the magnitude of scores?

(A)
Mean
(B)
Mode
(C)
Median
(D)
Range

Answer: Mean

66

Mode refers to the value within a series that occurs _____ number of times.

(A)
Maximum
(B)
Minimum
(C)
Zero
(D)
Infinite

Answer: Maximum

67

_____ is not a measure of central tendency.

(A)
Mode
(B)
Mean
(C)
Range
(D)
Median

Answer: Range

68

If a data set is symmetrical, what does it mean?

(A)
True distribution
(B)
FALSE
(C)
True skew
(D)
True symmetry

Answer: FALSE

69

What is an assumption when a data set is normally distributed?

(A)

The central tendency of populations is always equal to or greater than some constant.

(B)

Data points in a data set are, on average, equally spaced.

(C)

It has a standard deviation equal to 1.

(D)

All of the above

Answer: Data points in a data set are, on average, equally spaced.

70

What is the Central Limit Theorem?

(A)
A statement about the distribution of scores in samples
(B)
A statement about the mean of scores from random samples
(C)
A statement about the distribution of scores from a normal population
(D)
A statement about the distribution of scores for any sample

Answer: A statement about the distribution of scores for any sample

71

Which of the following measures is used to find the middle value of a data set?

(A)
Mean
(B)
Median
(C)
Mode
(D)
Range

Answer: Median

72

"The relationship between number of beers consumed (x) and blood alcohol content (y) was studied in 16 male college students by using least squares regression. The following regression equation was obtained from this study:
!= -0.0127 + 0.0180x
The above equation implies that:"

(A)
each beer consumed increases blood alcohol by 1.27%
(B)
on average it takes 1.8 beers to increase blood alcohol content by 1%
(C)
each beer consumed increases blood alcohol by an average of amount of 1.8%
(D)
each beer consumed increases blood alcohol by exactly 0.018

Answer: each beer consumed increases blood alcohol by an average of amount of 1.8%

73

SSE can never be

(A)
larger than SST
(B)
smaller than SST
(C)
equal to 1
(D)
equal to zero

Answer: larger than SST

74

In regression analysis, the variable that is being predicted is the

(A)
response, or dependent, variable
(B)
independent variable
(C)
intervening variable
(D)
is usually x

Answer: response, or dependent, variable

75

"If the correlation coefficient is 0.8, the percentage of variation in the response variable explained by the variation in the explanatory variable is"

(A)
0.80%
(B)
80%
(C)
0.64%
(D)
64%

Answer: 64%

76

If the correlation coefficient is a positive value, then the slope of the regression line

(A)
must also be positive
(B)
can be either negative or positive
(C)
can be zero
(D)

cannot be zero

Answer: must also be positive

77

A residual plot:

(A)

displays residuals of the explanatory variable versus residuals of the response variable.

(B)

displays residuals of the explanatory variable versus the response variable.

(C)

displays explanatory variable versus residuals of the response variable.

(D)

displays the explanatory variable versus the response variable.

Answer: displays explanatory variable versus residuals of the response variable.

78

When the error terms have a constant variance, a plot of the residuals versus the independentvariable x has a pattern that

(A)
fans out
(B)
funnels in
(C)
fans out, but then funnels in
(D)
forms a horizontal band pattern

Answer: forms a horizontal band pattern

79

If the values of two variables move in the same direction, _____

(A)
The correlation is said to be non-linear
(B)
The correlation is said to be linear
(C)
The correlation is said to be negative
(D)
The correlation is said to be positive

Answer: The correlation is said to be positive

80

What is the first difference of temperature / precipitation variable?

(A)
38.17

(B)
-46.11
(C)
-4.98
(D)
14.29

Answer: -46.11

81

Consider the following set of data: {23.32 32.33 32.88 28.98 33.16 26.33 29.88 32.69 18.98 21.23 26.66 29.89} What is the lag-one sample autocorrelation of the time series?

(A)
0.26
(B)
0.52
(C)
0.13
(D)
0.07

Answer: 0.13

82

Which of the following cross-validation techniques is better suited for time series data?

(A)
k-Fold Cross Validation
(B)
Leave-one-out Cross Validation
(C)
Stratified Shuffle Split Cross Validation
(D)
Forward Chaining Cross Validation

Answer: Forward Chaining Cross Validation

83

Use the estimated exponential smoothing given above and predict temperature for the next 3 years (1998-2000)

(A)
0.2, 0.32, 0.6
(B)
0.33, 0.33, 0.33
(C)
0.27, 0.27, 0.27
(D)
0.4, 0.3, 0.37

Answer: 0.33, 0.33, 0.33

84

Which of the following is not a necessary condition for weakly stationary time series?

(A)

Mean is constant and does not depend on time

(B)

Autocovariance function depends on s and t only through their difference |s-t| (where t and s are moments in time)

(C)

The time series under considerations is a finite variance process

(D)

Time series is Gaussian

Answer: Time series is Gaussian

85

Which of the following is not a technique used in smoothing time series?

(A)
Nearest Neighbour Regression
(B)
Locally weighted scatter plot smoothing
(C)
Tree based models like (CART)
(D)
Smoothing Splines

Answer: Tree based models like (CART)

86

If the demand is 100 during October 2016, 200 in November 2016, 300 in December 2016, 400 in January 2017. What is the 3-month simple moving average for February 2017?

(A)
300
(B)
350
(C)
400
(D)
Need more information

Answer: 300

87

What is the probability of an impossible event?

(A)
1
(B)
0
(C)
Insufficient data
(D)
Not defined

Answer: 0

88

Two unbiased coins are tossed. What is the probability of getting at most one head?

(A)
3/4
(B)
1/6
(C)
1/3
(D)
1/2

Answer: 1/2

89

Which of the following mentioned standard Probability density functions is applicable to discrete Random Variables?

(A)
Rayleigh Distribution
(B)
Exponential Distribution
(C)
Poisson Distribution
(D)
Gaussian Distribution

Answer: Poisson Distribution

90

In a discrete probability distribution, the sum of all probabilities is always?

(A)
1
(B)
0
(C)
Undefined
(D)
Infinite

Answer: 1

91

If the probability of hitting the target is 0.3, find mean and variance.

(A)
0.3, 0.16
(B)
0.3, 0.21
(C)
0.6, 0.16
(D)
0.6, 0.24

Answer: 0.3, 0.21

92

Find the number of ways of arranging the letters of the words DANGER, so that no vowel occupies an odd place.

(A)
144
(B)

96
(C)
36
(D)
48

Answer: 144

93

If the probability that a bomb dropped from a place will strike the target is 70% and if 10 bombs are dropped, find the mean and variance.

(A)
4, 1.6
(B)
0.4, 0.16
(C)
7, 2.1
(D)
0.7, 0.21

Answer: 0.7, 0.21

94

What is an index number?

(A)
A statistical measure that represents the changes in a variable over time.
(B)
A fixed number used for comparison purposes.
(C)
A method for calculating probabilities.

(D)
A measure of central tendency.

Answer: A statistical measure that represents the changes in a variable over time.

95

What are the types of index numbers?

(A)
Simple index numbers and aggregate index numbers.
(B)
Positive index numbers and negative index numbers.
(C)
Weighted index numbers and unweighted index numbers.
(D)
Base index numbers and current index numbers.

Answer: Simple index numbers and aggregate index numbers.

96

What is deflating in index number construction?

(A)
Adjusting the index for changes in the general price level
(B)
Applying a weighted average to the index
(C)
Removing seasonal variations from the data
(D)
Comparing the index to a base year

Answer: Adjusting the index for changes in the general price level

97

What is the Consumer Price Index (CPI)?

(A)

An index that measures changes in the prices of goods and services purchased by consumers.

(B)

An index that measures changes in the prices of goods and services purchased by businesses.

(C)

An index that measures changes in the prices of financial assets.

(D)

An index that measures changes in the prices of imports and exports.

Answer: An index that measures changes in the prices of goods and services purchased by consumers.

98

What is deflating in the construction of index numbers?

(A)
Adjusting an index number series for the effects of inflation
(B)

Adjusting an index number series for seasonal variations

(C)

Removing outliers from an index number series

(D)

Changing the base year of an index number series

Answer: Adjusting an index number series for the effects of inflation

99

Which index number is used to measure changes in the overall cost of living for a specific group of consumers?

(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)

100

Which type of index number uses a fixed set of weights based on a specific year?

(A)

Fixed Base Index

(B)

Chain Base Index

(C)
Weighted Index
(D)
Unweighted Index

Answer: Fixed Base Index