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Quiz Start Time: 05:01 PM

Time Left 81

sec(s)

Question # 1 of 10 (Start time: 05:01:05 PM) Total Marks: 1

What type of data is collected in population census?

Select correct option:

Two Types

Quiz Start Time: 05:01 PM Time Left 77

sec(s)

Question # 2 of 10 (Start time: 05:04:05 PM) Total Marks: 1

The collection of all outcomes for an experiment is called

Select correct option:

a sample space

the intersection of events

joint probability

population

Quiz Start Time: 05:01 PM Time Left 75

sec(s)

Question # 3 of 10 (Start time: 05:04:51 PM) Total Marks: 1

Which of the graph is used for a time series data:

Select correct option:

Frequency curve

Frequency polygon

Historigram

Histogram

Quiz Start Time: 05:01 PM Time Left 47

sec(s)

Question # 4 of 10 (Start time: 05:06:06 PM) Total Marks: 1

A histogram is consists of a set of adjacent rectangles whose bases are marked off by:

Select correct option:

Class boundaries

Class limits

Class frequency

Class marks

Quiz Start Time: 05:01 PM Time Left 72

sec(s)

Question # 5 of 10 (Start time: 05:06:56 PM) Total Marks: 1

The value that has half of the observations above it and half the observations below it

is known as:
Select correct option:

- Mean
- Median
- Mode
- Standard deviation

Quiz Start Time: 05:01 PM Time Left 57
sec(s)

Question # 6 of 10 (Start time: 05:07:24 PM) Total Marks: 1
The height of a student is 60 inches. This is an example of?
Select correct option:

- Continuous data
- Qualitative data
- Categorical data
- Discrete data

Quiz Start Time: 05:01 PM Time Left 47
sec(s)

Question # 7 of 10 (Start time: 05:08:06 PM) Total Marks: 1
Range of the values -2,-3,-4,-3,-9,-2,-8,-1,0 is
Select correct option:

- 0
- 9
- 8
- 9

Quiz Start Time: 05:01 PM Time Left 70
sec(s)

Question # 8 of 10 (Start time: 05:09:26 PM) Total Marks: 1
If the both tails of the distribution are equal, then distribution is called:
Select correct option:

- J-shaped
- Symmetrical
- Positively Skewed
- Negatively Skewed

Quiz Start Time: 05:01 PM Time Left 41
sec(s)

Question # 9 of 10 (Start time: 05:09:54 PM) Total Marks: 1
Ranking scale also include the properties of which scale?
Select correct option:

- Nominal scale
- Interval scale
- Ratio scale
- All of these

Quiz Start Time: 05:01 PM Time Left 31
sec(s)

Question # 10 of 10 (Start time: 05:10:56 PM) Total Marks: 1
Range of the values -2.50,-3.70,-4.80,-3.10,-9.70,-2.20,-8.90,-1.60, 0.60 is
Select correct option:

- 10.03
- 10.30
- 9.10
- 9.00
- Q

Question # 3 of 10 (Start time: 07:36:37 PM) Total Marks: 1
If in a set of discrete values of observations, 50 percent values are greater than 25,
then Q2 is
Select correct option:

- 20
- 25
- 50
- 75

Question # 4 of 10 (Start time: 07:37:54 PM) Total Marks: 1
Which graph is used for a time series data?
Select correct option:

- Histogram
- Hitorigram

- Frequency curve
- Frequency polygon

Question # 5 of 10 (Start time: 07:38:49 PM) Total Marks: 1
If the mean of the two observations is 11.5, then the median of these two observations
will be:
Select correct option:

8.5

9.5

11.5

10.5

Question # 6 of 10 (Start time: 07:40:08 PM) Total Marks: 1

What is/are the mode for the following data: M,V,E,M,T,U,I,E

Select correct option:

M,U

E,U

M,E

M,T

Question # 7 of 10 (Start time: 07:41:08 PM) Total Marks: 1

Fill in the missing words to the quote: "Statistical methods may be described as methods for drawing conclusions aboutbased on..... computed from the"

Select correct option:

Populations, parameters, samples

Statistics, parameters, samples

Parameters, statistics, populations

Populations, statistics, samples

Question # 8 of 10 (Start time: 07:42:15 PM) Total Marks: 1

What is the median of the data, 1, 2, 3, 5, 6, 7, 7, 8, 8, 9:

Select correct option:

No median

6.5

6

7, 8

Question # 9 of 10 (Start time: 07:43:27 PM) Total Marks: 1

Which of the following is not included in measures of central tendency:

Select correct option:

Quartile deviation

Harmonic mean

Geometric mean

Arithmetic mean

Question # 10 of 10 (Start time: 07:44:26 PM) Total Marks: 1

The sum of squares of deviations from mean is:

Select correct option:

Maximum
Minimum

Zero

Undefined

Question # 1 of 10 (Start time: 07:49:03 PM) Total Marks: 1 The beginnings of a cumulative

frequency distribution are presented below. What is the next number in the Cumulative Frequency column?

Classes Frequency Cumulative Frequency 6.1 to 8 1 1 8.1 to 10 2 10.1 to 12 3

0

1

2

3

What is the mode of the data, 1, 5, 7, 3, 9, 2, 6, 8:

3

5

7

no mode

Data arranged in order of magnitude are called:

Raw data

Grouped data

Arrayed data

Frequency distribution

Range of the values -10, -19, -9, -15, -28, -26, -25 is:

+18

-18

+19

-19

Q

Sum of deviation of values from their mean is:

Maximum

Minimum

Zero

Un-predicted

Q

Which method is used for obtaining the relative frequencies?

Dividing the mid points by the frequency

Dividing the mid points by the total frequency

Dividing the frequency by the total frequency

Dividing the total frequency by the frequency

Question # 1 of 10 (Start time: 08:10:46 PM) Total Marks: 1

The data for an ogive is found in which distribution:

Select correct option:

A cumulative frequency distribution

A joint frequency distribution

A frequency distribution

A relative frequency distribution

Question # 2 of 10 (Start time: 08:11:52 PM) Total Marks: 1

Which of the following statements about histogram rectangles is correct?

Select correct option:

The rectangles are proportional in height to the number of items falling in the classes

There are generally five rectangles in every histogram

Heights all of rectangles are equal

None of these (not sure)

Question # 4 of 10 (Start time: 08:14:17 PM) Total Marks: 1

When more values are lying at the start of the distribution, it is:

Select correct option:

U shape figure

Symmetrical distribution

Positively skewed

Negatively skewed

Question # 5 of 10 (Start time: 08:15:36 PM) Total Marks: 1

Which graph is used for a time series data?

Select correct option:

Histogram

Hitorigram

Frequency curve

Frequency polygon

Question # 6 of 10 (Start time: 08:16:35 PM) Total Marks: 1

Which one of the following is less than mode for a symmetrical distribution:

Select correct option:

2nd Quartile

51th Percentile

50th Percentile

4th Decile (not sure)

Question # 7 of 10 (Start time: 08:17:40 PM) Total Marks: 1

How to construct a class interval?

Select correct option:

Divide the class frequencies in half

Divide the class frequency by the number of observations

Find the difference between consecutive lower class limits

Count the number of observations in the class

What is the mode in the word STATISTICS:

Select correct option:

S

T

I

S & T

Question # 9 of 10 (Start time: 08:19:22 PM) Total Marks: 1

The graph of cumulative frequency distribution is called:

Select correct option:

Frequency polygon

Ogive

Frequency curve

Historigram

Question # 10 of 10 (Start time: 08:20:06 PM) Total Marks: 1

Tabulation is the process of arranging data into:

Select correct option:

Different classes

Rows

Columns

Rows and Columns

Q

From the given data, which one of the following chart we can draw: Year Turnover

1965 350000 1966 42000 1967 43500 1968 48000 1969 48500

Select correct option:

Simple bar chart

Multiple bar charts

Component bar chart

Pie chart

Q

The collection of all outcomes for an experiment is called
Select correct option:

a sample space

the intersection of events

Q

When data are labels to identify an attribute of element, the measurement scale is
Select correct option:

Nominal

Ordinal

Interval

Ratio

Q

What is the mode of the data, 1, 5, 7, 3, 9, 2, 6, 8, 7:
Select correct option:

No mode

7

5

9

Q

The postal code of city Lahore is 54000. This is an example of which data?
Select correct option:

Qualitative data

Discrete data

Quantitative data

Continuous data

Q

graph of cumulative frequency distribution is called:
Select correct option:

Frequency polygon

Ogive

Frequency curve

Historigram

Question # 3 of 10 (Start time: 12:01:45 PM) Total Marks: 1

A frequency polygon is obtained by plotting the class frequencies against what?
Select correct option:

Class boundaries

Relative frequencies

Cumulative frequencies

Mid-points of the classes

Q

Question # 6 of 10 (Start time: 12:06:31 PM) Total Marks: 1

Mean is affected by the change of

Select correct option:

Origin only

scale only

(c) (a) & (b) only

not affected

Q

Question # 7 of 10 (Start time: 12:07:55 PM) Total Marks: 1

Tabulation is the process of arranging data into:

Select correct option:

Different classes

Rows

Columns

Rows and Columns

Question # 8 of 10 (Start time: 12:08:30 PM) Total Marks: 1

How to find the class midpoint?

Select correct option:

Half the sum of upper class limit and lower class limit

Find the difference between consecutive lower limits

Count the number of observations in the class

Divide the class frequency by the number of observations

Q

Question # 9 of 10 (Start time: 12:10:07 PM) Total Marks: 1

Fill in the missing words to the quote: "Statistical methods may be described as methods for drawing conclusions aboutbased on..... computed from the"

Select correct option:

Populations, parameters, samples

Statistics, parameters, samples

Parameters, statistics, populations

Populations, statistics, samples

Q

which of the following is not an example of compressed data

Select correct option:

Data array

Frequency distribution

Histogram

Ogive

Q

As a general rule, statisticians tends to use which of the following number of classes when arranging the data

Select correct option:

Fewer than 5

Between 5 & 20

Between 8 & 15

More than 20

Q

Which of the following comes first to make frequency distribution:

Select correct option:

No. of Groups

Class interval

Range

Tally marks

Q

Question # 9 of 10 (Start time: 12:32:41 PM) Total Marks: 1

Statistic is a numerical quantity, which is calculated from

Select correct option:

Data

Observations

Population

Sample

Q

Question # 1 of 10 (Start time: 02:51:38 PM) Total Marks: 1

What is the value of class mark for the given class 20-24?

Select correct option:

20

24

22

44

Q

Question # 2 of 10 (Start time: 02:52:58 PM) Total Marks: 1

Which method is used for obtaining the relative frequencies?

Select correct option:

Dividing the mid points by the frequency

Dividing the mid points by the total frequency

Dividing the frequency by the total frequency

Dividing the total frequency by the frequency

Q

Question # 4 of 10 (Start time: 02:54:28 PM) Total Marks: 1

What is the mode in the word MATHEMATICS:

Select correct option:

No mode

M

A

T, A, M

Q

Question # 5 of 10 (Start time: 02:54:58 PM) Total Marks: 1

The branch of Statistics that is concerned with the procedures and methodology for obtaining valid conclusions is called:

Select correct option:

Descriptive Statistics

Advance Statistics

Inferential Statistics

Sampled Statistics

Q

Question # 6 of 10 (Start time: 02:56:06 PM) Total Marks: 1

What is/are the mode for the following data: 1,1,2,2,5,5,7,7

Select correct option:

1,2

1,2,5

1,2,5,7

No mode in the data

Q

Question # 7 of 10 (Start time: 02:56:27 PM) Total Marks: 1

The algebraic sum of deviations from mean is:

Select correct option:

Maximum

minimum

Zero

undefined

Q

Question # 8 of 10 (Start time: 02:56:52 PM) Total Marks: 1

If a curve has a longer tail to the right, it is called

Select correct option:

Positively skewed

Negatively skewed

J-shaped

Symmetric

Q

Question # 9 of 10 (Start time: 02:58:08 PM) Total Marks: 1

Range of the values 10, 19, -9, -15, -28, -26, -25 is:

Select correct option:

+18

-18

+19

-19

Q

Question # 10 of 10 (Start time: 02:59:26 PM) Total Marks: 1

The data which have not undergone any statistical treatment is called

Select correct option:

Discrete data

secondary data

Primary data

qualitative data

Q

According to the property of parameter, it is

Select correct option:

Variable

Constant

Discrete

Continuous

Q

Question # 1 of 10 (Start time: 02:34:23 PM) Total Marks: 1

When data are labels to identify an attribute of element, the measurement scale is

Select correct option:

Nominal

Ordinal

Interval

Ratio

Q

Question # 3 of 10 (Start time: 02:35:28 PM) Total Marks: 1

What is the median of the data, 1, 2, 3, 5, 6, 7, 7, 8, 8, 9:
Select correct option:

No median

6.5

6

7, 8

Q

Question # 4 of 10 (Start time: 02:36:21 PM) Total Marks: 1

The value that has half of the observations above it and half the observations below it is known as:

Select correct option:

Mean

Median

Mode

Standard deviation

Q

Question # 6 of 10 (Start time: 02:37:32 PM) Total Marks: 1

For given data, discuss the shape of the distribution: X f 0.2 8 1.2 15 2.2 23 3.2 40

Select correct option:

Positively skewed

Negatively skewed

Symmetric curve

U- Shaped curve

Q

Question # 7 of 10 (Start time: 02:39:00 PM) Total Marks: 1

Sum of deviation of values from their mean is:

Select correct option:

Maximum

Minimum

Zero

Q

Question # 8 of 10 (Start time: 02:39:22 PM) Total Marks: 1

The following data shows the number of hours worked by 120 mathematical students.
Number of Hours Frequency 0 - 5 10 5 - 10 50 10 - 15 40 15 - 20 20 What is its class interval?

Select correct option:

5
10
20
25

Q

Question # 9 of 10 (Start time: 02:40:32 PM) Total Marks: 1

The data for an ogive is found in which distribution:

Select correct option:

- A cumulative frequency distribution
- A joint frequency distribution
- A frequency distribution
- A relative frequency distribution

Question # 10 of 10 (Start time: 02:41:00 PM) Total Marks: 1

If '42' is a leading digit in 42350, than what are the trailing digits in the observation to display a 'Stem-and -Leaf display'.

Select correct option:

50
350
2350

42350

Question # 1 of 10 (Start time: 03:06:30 PM) Total Marks: 1

Which scale will you use to measure the temperature?

Select correct option:

- Nominal scale
- Interval scale
- Ratio scale
- Ordinal scale

Q

Question # 2 of 10 (Start time: 03:07:32 PM) Total Marks: 1

The value of the middle term in a ranked (ordered) data set is called the

Select correct option:

- Mode
- Mean
- Median
- Harmonic mean

Q

The ordinal scale is also known as?

Select correct option:

- Ratio scale

Ranking scale
Nominal scale
Interval scale

Q

Question # 4 of 10 (Start time: 03:09:24 PM) Total Marks: 1

What is the main objective of Descriptive Statistics?

Select correct option:

- To test the population properties
- To describe the data we collected
- To infer something about the population
- To make estimates

Q

Question # 5 of 10 (Start time: 03:10:38 PM) Total Marks: 1

For given data, discuss the shape of the distribution: X f 3 45 5 25 5 10 7 23 9 47

Select correct option:

- Positively skewed
- Negatively skewed
- Symmetric curve
- U- Shaped curve

Q

Question # 6 of 10 (Start time: 03:11:56 PM) Total Marks: 1

Which method is used for obtaining the relative frequencies?

Select correct option:

- Dividing the mid points by the frequency
- Dividing the mid points by the total frequency
- Dividing the frequency by the total frequency
- Dividing the total frequency by the frequency

Q

Question # 7 of 10 (Start time: 03:13:14 PM) Total Marks: 1

What is/are the mode for the following data: 1,m,d,n,,2,d,2,d,s,5,5,7

Select correct option:

- 2
- d
- 5
- 2,d,5

Q

Question # 8 of 10 (Start time: 03:14:16 PM) Total Marks: 1

Range of the values -2,-3,-4,-3,-9,-2,-8,-1,0 is

Select correct option:

- 0
- 9
- 8
- 9

Question # 10 of 10 (Start time: 03:15:42 PM) Total Marks: 1

What type of data is collected in population census?

Select correct option:

- Grouped data
- Secondary data
- Primary data
- Array data

Question # 1 of 10 (Start time: 11:57:13 AM)

Total Marks: 1

What is/are the mode for the following data: 1,m,d,n,,2,d,2,d,s,5,5,7

- 2
- **D**
- 5
- 2,d,5

Question # 3 of 10 (Start time: 12:00:10 PM)

Total Marks: 1

What we commonly called a bell shaped distribution:

- Skewed
- U shaped**
- Bimodal
- Symmetric

Question # 6 of 10 (Start time: 12:04:40 PM)

Total Marks: 1

Range of the values -10,- 19, -9, -15, -28, -26, -25 is:

+18

+19 (range=highest-lowest,-9-(-28)=+19)

-18

-19

Question # 7 of 10 (Start time: 12:06:10 PM)

Total Marks: 1

Which one of the following is less than median for a symmetrical distribution:

4th deciles

2nd quartile

51st percentile

50th percentile

Question # 8 of 10 (Start time: 12:07:46 PM)

)

The value of the middle term in a ranked (ordered) data set is called the

Mode

Median

Mean

Harmonic mean

Question # 10 of 10 (Start time: 12:10:09 PM)

Total Marks: 1

Statistic is a numerical quantity, which is calculated from

Samples

Question # 2 of 10 (Start time: 04:16:41 PM)

Total Marks: 1

How to find the class midpoint?

Half the sum of upper class limit and lower class limit

Question # 4 of 10 (Start time: 04:18:56 PM)

Total Marks: 1

What is the mode of the data, 1, 5, 7, 3, 9, 2, 6, 8, 7:

7

Question # 5 of 10 (Start time: 04:20:22 PM)

Total Marks: 1

if '2' is a leading digit in 24335, than what are the trailing digits in the observation to display a 'Stem-and -Leaf display'.

4335

Question # 6 of 10 (Start time: 04:21:41 PM)

Total Marks: 1

Data classified by attributes are called:

Qualitative data

Question # 8 of 10 (Start time: 04:24:05 PM)

The collection of all outcomes for an experiment is called

a sample space

Question # 9 of 10 (Start time: 04:25:25 PM)

Total Marks: 1

A frequency polygon is obtained by plotting the class frequencies against what?

Mid-points of the classes

Question # 10 of 10 (Start time: 04:26:18 PM)

Total Marks: 1

When more values are lying at the start of the distribution, it is:

Positively skewed

1. A quantity obtained by applying certain rule or formula is known as

Select correct option:

Estimate

Estimator

2. Criteria to check a point estimator to be good involves

Select correct option:

Consistency

Unbiasedness

Efficiency

Above all pg 258

3. The F-distribution always ranges from:

Select correct option:

0 to 1

0 to -8

-8 to +8

0 to +8

4. 1-a is the probability of

Select correct option:

Type 1 error

Rejection region

Acceptance region

Type 2 error

5. Parameter is aquantity.

Select correct option:

Constant

Variable

6. To find the estimate of a parameter.....methods are used.

Select correct option:

Two

Three

Four

Many

7. A failing student is passed by an examiner. It is an example of:

Select correct option:

Type I error

Type II error

Correct decision

No information regarding student exams

8. For two mutually exclusive events A and B, $P(A) = 0.2$ and $P(B) = 0.4$, then $P(A \cup B)$ is:

Select correct option:

0.8

0.2

0.6

0.5

9. An urn contains 4 red balls and 6 green balls. A sample of 4 balls is selected from the urn

without replacement. It is the example of:

Select correct option:

Binomial distribution

Hypergeometric distribution

Poisson distribution

Exponential distribution

10. A standard deck of 52 cards is shuffled. What is the probability of choosing the 5 of diamonds:

Select correct option:

1/5

1/13

5/52

1/52

11. If $P(A \cap B) = 0.12$ $P(A) = 0.3$, find $P(B)$ where 'A' and 'B' are independent:

Select correct option:

0.1

0.2

0.3

0.4

12. The mean deviation of the normal distribution is approximately:

Select correct option:

7/8 of the S.D

4/5 of the S.D

3/4 of the S.D

1/2 of the S.D

13. We use the Poisson approximation to the binomial when:

Select correct option:

p is 0.01 or less & n is 10 or more

p is 0.05 or less & n is 20 or more pg221

p is 0.04 or less & n is 15 or more

p is 0.02 or less & n is 10 or more

14. The conditional probability $P(A|B)$ is:

Select correct option:

$P(A \cap B)/P(B)$ pg157

$P(A \cap B)/P(A)$

$P(A \cup B)/P(B)$

$P(A \cup B)/P(A)$

15. We use the General Rule of Multiplication to combine:

Select correct option:

Events those are not independent

Mutually exclusive events

Events that total more than 1.00

Events based on subjective probabilities

16. Which statement is NOT CORRECT?

Select correct option:

The sample standard deviation measures variability of our sample values

A larger sample will give answers that vary less from the true value than smaller samples

The sampling distribution describes how our estimate (answer) will vary if a new sample is taken

A large sample size always gives unbiased estimators regardless of how the sample is chosen

17. Probability of an impossible event is always:

Select correct option:

Less than one

Greater than one

Between one and zero

Zero

18. The number of parameters in uniform distribution is (are):

Select correct option:

12

pg 224

34

19. The probability can never be:

Select correct option:

1 1/2

1 -

1/2

20. The conditional probability $P(A|B)$ is:

Select correct option:

$P(A \cap B)/P(B)$

$P(A \cap B)/P(A)$

$P(A \cup B)/P(B)$

$P(A \cup B)/P(A)$

21. A random sample of $n=25$ values gives sample mean 83. Can this sample be regarded as drawn

from a normal population with $\mu=80$ and $s=7$? In this question the alternative hypothesis will

be:

Select correct option:

$H_1: \mu = 80$

$H_1: \mu \neq 80$

$H_1: \mu > 80$

$H_1: \mu < 80$ pg 278

22. If $f(x)$ is a continuous probability function, then $P(X = 2)$ is:

Select correct option:

$10 \frac{1}{2}$

2

23. The binomial distribution is negatively skewed when:

Select correct option:

$p > q$ pg 214

$p < q$

$p = q$

$p = q = 1/2$

24. If we roll three fair dices then the total number of outcomes is:

Select correct option:

6 36

216

1296

25. When we draw the sample with replacement, the probability distribution to be used is:

Select correct option:

Binomial

Hypergeometric

Binomial & hypergeometric pg 219

Poisson

26. The moment ratios of normal distribution come out to be:

Select correct option:

0 and 1

0 and 2

0 and 3 pg 226

0 and 4

27. The probability of an event is always:

Select correct option:

greater than 0

less than 1

between 0 and 1

greater than 1

28. Symbolically, a conditional probability is:

Select correct option:

$P(AB)$

$P(A/B)$

$P(A)$

$P(A \cup B)$

29. Suppose the test scores of 600 students are normally distributed with a mean of 76 and

standard deviation of 8. The number of students scoring between 70 and 82 is:

Select correct option:

272

164

260

328

30. If $P(A) = 0.3$ and $P(B) = 0.5$, find $P(A/B)$ where 'A' and 'B' are independent:

Select correct option:

0.3

0.5

0.8

0.15

31. An urn contains 4 red balls and 6 green balls. A sample of 4 balls is selected from the urn

without replacement. It is the example of:

Select correct option:

Binomial distribution

Hypergeometric distribution

Poisson distribution

Exponential distribution

32. If the second moment ratio is less than 3 the distribution will be:

Select correct option:

Mesokurtic

Leptokurtic

Platykurtic pg 226

None of these

33. For the independent events A and B if $P(A) = 0.25$, $P(B) = 0.40$ then $P(A \text{ and } B) = \dots\dots$

Select correct option:

0.65

0.1

0.50

0.15

34. A set of possible values that a random variable can assume and their associated probabilities of

occurrence are referred to as _____.

Select correct option:

Probability distribution

The expected return
The standard deviation
Coefficient of variation

**35. A random variable X has a probability distribution as follows: X | 0 1 2 3 P(X) | 2k
3k 13k 2k**

What is the possible value of k:

Select correct option:

0.01
0.03
0.05
0.07

36. The probability of drawing any one spade card is:

Select correct option:

1/52
4/52
13/52
52/52

37. The function abbreviated to d.f. is also called the.....

Select correct option:

Probability density function

Probability distribution function pg 172

Commutative distribution function

Discrete function

38. Binomial distribution is skewed to the right if:

Select correct option:

p=q
P<q
p>q
p=n

39. A discrete probability function f(x) is always:

Select correct option:

Zero

One pg 172

Negative

Non-negative

40. For a binomial distribution, n= 10 & q= 0.6, the mean of the distribution is:

Select correct option:

0.6
6.0
10
4

41. In the FA examination, 24 candidates offered Statistics. If the probability of passing the subject

be 1/3, what will be the mean of the distribution?

Select correct option:

7865

42. The probability that a certain machine will produce a defective item is $\frac{1}{4}$. If a random sample of 6 items is taken from the output of this machine, what is the probability that there will be 5 or more defectives in the sample?

Select correct option:

$\frac{3}{4096}$

$\frac{18}{4096}$

$\frac{19}{4096}$

$\frac{4}{4096}$

43. Probability of type II error is

Select correct option:

a

B pg 276

1-a

1-B

44. If the values of variables are increasing or decreasing in the same direction then such kind of correlation is referred as

Select correct option:

Zero Correlation

Perfect Correlation

Positive Correlation

Negative Correlation

45. The moving averages of the Prices 55,60,65,70 are

Select correct option:

70, 75

60, 65

65,65

70,60

46. The best measure of variation is

Select correct option:

Range

Quartile deviation

Variance

Coefficient of variance

47. Ms. Christian calculated a correlation coefficient of .75. Which of the following reflects the best interpretation of this?

Select correct option:

Weak negative.

Strong negative.

Weak positive.

Strong positive.

48.use the division of a circle into different sectors. Select correct option:

Line graph

Sector graphs

Frequency Polygon

Conversion Graphs

49. **The measurement of measure of degree of to which any two variables vary together is called**

- Select correct option:
Regression Coefficient
Correlation
Both (a) and (b)

None of these

50. **Analysis of Variance (ANOVA) is a test for equality of:**

Select correct option:

variances

- means
proportions
only two parameters

51. **For some data you are given Maximum value = 96 , Minimum Value = 23 , Range = 73,**

number of classes selected between 5 and 15 Then class width will be Select correct option:

15

85

All options 1,2 ,3 are possible

52. **If strength of the association between X and Y is very weak, then $r = ?$ Select correct option:**

$r = - 1$

$r = 0$

$r = 1$

$r = 2$

53. **The moving averages of the Prices 90,70,30,110 are Select correct option:**

63.33, 70

73.33, 80

45.45, 68

65.50, 75

54. **With increase in sample size, distribution tends to be a.....**

Select correct option:

Meso kurtic

Normal

Bell shaped

Above all

55. **In the central tendency Mean, Median and Mode**

Select correct option:

Mean is better than Median

Median is better than Mode

Mean is better than Mode

All of these are true

56. **The degree to which numerical data tend to spread about an average is called**

Select correct option:

The dispersion

Standard deviation

Correlation

None of these

57.graphs are similar to bar graphs.

Select correct option:

column

line

conversion

sector

58. A pattern of variation of a time series that repeats every year is called:

Select correct option:

Cyclical

Seasonal

Trend

Secular

59. In the central tendency Mean, Median and Mode

Select correct option:

Mean is better than Median

Median is better than Mode

Mean is better than Mode

All of these are true

60. The degree to which numerical data tend to spread about an average is called

Select correct option:

The dispersion

Standard deviation

Correlation

None of these

61.graphs are similar to bar graphs.

Select correct option:

column

line

conversion

sector

62. A pattern of variation of a time series that repeats every year is called:

Select correct option:

Cyclical

Seasonal

Trend

Secular

63. You have measured the systolic blood pressure of a random sample of 22 employees of a

company. A 95% confidence interval for the mean systolic blood pressure for the employees is

computed to be (120,138). Which of the following statements gives a valid interpretation of this

interval?

Select correct option:

About 95% of the sample of employees has a systoli

About 95% of the employees in the company have a

If the sampling procedure were repeated many times

If the sampling procedure were repeated many times

64. Assume that a population consists of 7 similar containers having the following weights (km):

9.8, 10.2, 10.4, 9.8, 10.0, 10.2, 9.6 What is the second moment about mean?

Select correct option:

0.262 kg

0.069kg

0.521 kg

0.313kg

65. How many numbers of parameter(s) are in t-distribution?

Select correct option:

0

1 pg 292

2

3

66. With increase in sample size, distribution tends to be a.....

Select correct option:

Meso kurtic

Normal

Bell shaped

Above all

67. F-distribution is a..... distribution.

Select correct option:

Unimodel pg 312

Bimodal

Discrete

Negatively skewed

68. Which one of the following sampling methods would give unbiased results, if you need to find

out the number of people in your town liking vanilla or chocolate ice creams?

Select correct option:

Ask my neighbors

Randomly select a few ice cream shops in town, and

Ask my friends

Ask my classmates

69. A standard deviation obtained from sampling distribution of sample statistics is known as

Select correct option:

Sampling Error

Standard error pg 240

70. If the regression line: $Y = 3 + 5X$ meets y-axis at '8' units distance from origin then the value of

x-intercept is

Select correct option:

$-(3/5)$

$3/5$

$11/5$

1

71. Sum of three terms whose mean is equal to 90 is

Select correct option:

270

30

Also 90
None of these

72. FREQUENCY Function calculates how often values occur within a range of values.

Select correct option:

true

False

73. Which of the following correlation coefficients represents the weakest correlation between two variables?

Select correct option:

0.15

-0.15

0.02

-1.00

74. If the value of r is 0.8 ,then the coefficient of determination is

Select correct option:

67%

64%

80%

75%

75. If the dependent variable increases with the independent variable then the coefficient of correlation is

Select correct option:

0 to -1

0 to - 0.5

0 to -2

0 to 1

76. F- distribution tends to normality, if

Select correct option:

V1~8

V2~8

V1 and V2 ~8

Sample size is large

77. Consistency of an estimator can be checked by comparing

Select correct option:

Mean

MSE

Variance

Standard deviation

78. A standardized estimate has mean and variance

Select correct option:

(1, 0)

(0, 1)

(μ , s^2)

(μ , s)

79. A composite hypothesis comprises of

Select correct option:

Equality
Not equal to
Less than/greater

(b) and (c)

80. For a particular hypothesis test, $\alpha=0.05$ and $\beta=0.05$. The power of test is equal to:

Select correct option:

0.14

0.90

0.95

0.25

81. In a t-distribution

Select correct option:

Mean=median=mode

Mean>Median<Mode

Median >Mean>Mode

Media<Mode<Mean

82. If we reject the null hypothesis, we might be making

Select correct option:

Type I error

Type II error

A correct decision

Unpredictable

83. The Central Limit Theorem is important in Statistics because it allows us to use the normal

distribution to make inferences concerning the population mean:

Select correct option:

Provided that the population is normally distributed a

Provided that the population is normally distributed (

Provided that the sample size is reasonably large (fo

Provided that the population is normally distributed and the population variance is known (for any sample size)

84. Herbicide A has been used for years in order to kill a particular type of weed, but an experiment is to

be conducted in order to see whether a new herbicide, Herbicide B, is more effective than Herbicide A.

Herbicide A will continue to be used unless there is sufficient evidence that Herbicide B is more

effective.

The alternative hypothesis in this problem is that

Select correct option:

Herbicide A is more effective than Herbicide B

Herbicide B is more effective than Herbicide A

Herbicide A is not more effective than Herbicide B

Herbicide B is not more effective than Herbicide A

85. A data in which we study about Regions is called.....

Select correct option:

Qualitative

Quantitative

Geographical

Chronological

86. If the median of an arrangement of numbers is equal to the mean of its middle terms then the

arrangement contains

Select correct option:

Odd number of terms

Even number of terms

Unlimited number of terms

Prime number

87. If the graph is very much scattered, then what can be the suitable value of r?

Select correct option:

$r = -0.9$

$r = -0.5$

$r = 0.1$

$r=0.8$

88. In scatter diagram, clustering of points around a straight line indicates

Select correct option:

Linear regression

Non-linear regression

Curvilinear linear regression

Both a and b

89. If the standard deviation of a population is 9, the population variance is

Select correct option:

39 21.35

81

90. How many steps are involved in general procedure for testing hypothesis:

4567 91. When testing for independence in a

contingency table with 2

rows and 5

columns, there are

_____ degrees of freedom.

4

10

75

92. The critical region is in:

The middle of a distribution

The tails of a distribution

Either the middle or the tails of a distribution

Neither the middle nor the tails of a distribution

93. t-distribution is used to test the hypothesis about.....

Mean

proportion

The term 1-B is called

Level of the test

power of the test

Size of the test

Critical region

94. The asymptotic distribution of t-statistic with n-degree of freedom is

F

Normal

Z T

95. The Gallup Poll has decided to increase the size of its random sample of Canadian voters from

about 1200 people to about 4000 people. The effect of this increase is to:

Reduce the bias of the estimate

Increase the standard error of the estimate

Reduce the variability of the estimate

Increase the confidence interval width for the parameter

96. The value of chi square can never be :

Zero

Less than 1

Greater than 1

Negative

97. The curve of the F- distribution depends upon:

Mean

Variance

Standard Deviation

Sample Size

98. We want to test $H_0 : \mu = 1.5$ vs. $H_1 : \mu \neq 1.5$ at $\alpha = .05$. A 95% confidence interval for μ

calculated from a given random sample is (1.4, 3.6)Based on this finding we:

Fail to reject H_0

Reject H_0

Cannot make any decision at all because the value of the test statistic is not available

Cannot make any decision at all because (1.4, 3.6) is only a 95%

99. When we want to test the equality of two variances we usually use

F-test

Chi-square test

ANOVA

Z_test

100. To find the estimate of a parameter.....methods are used.

Two

Three

Four

Many

101. In testing hypothesis, we always begin it with assuming that:

Null hypothesis is true

Alternative hypothesis is true

Sample size is large

Population is normal

102. t-distribution is applicable in case of

Independent samples

Dependent samples

Both (a) and (b)

Normal populations

103. When testing for independence in a contingency table with 3 rows and 4 columns, there are _____ degrees of freedom.

567 12

104. The Chi- Square distribution is continuous distribution ranging from:

0 = ∞ = 8

-8 = ∞ = 0

-8 = ∞ = 1

-8 = ∞ = 8

105. The location of the critical region depends upon:

Null hypothesis

Alternative hypothesis

Value of alpha

Value of test-statistic

106. A random sample of $n = 6$ has the elements 6, 10,13,14,18 and 20.What is the point estimate of the population mean?

12

13.5

11

11.5

107. ML estimators may not

Consistent

Efficient

Unbiased

Bised

108. Which of the following reveals the weakest fact.

Select correct option:

The measure of central tendency measures that value which depends only on the extreme values

The measure of central tendency measures that value in tha data which occurs in the data most frequent times.

The measure of central tendency measures the value which has tendency to lie in the central part of the data.

109. The measure of central tendency measures the distance of values from means

Frequency polygon is

Select correct option:

Bar Charts

A line graph

Pareto Chats

None of these

110. A bar graph usesto show data.

Select correct option:

Points

Bars

Lines

Pictures

111. Geographical data deals with...

Select correct option:

Religion

Height

Income

Regions

112. Which one provides the basis for hypothesis testing?

Null hypothesis

Alternative hypothesis

Critical value

Test-statistics

113. The test statistic to test the $U_1 = U_2$ (U represent the mean of population)for normal population for $n > 30$.

F-test

Z-test

T-test

Chi-Square test

114. In a t-distribution

Mean=median=mode

Mean > Median < Mode

Median > Mean > Mode

Media < Mode < Mean

115. $1-a$ is the probability of

Type 1 error

Rejection region

Acceptance region

Type 2 error

116. Inferential statistics involves

Testing

Confidence interval

Estimation

Above all

117. Probability of type II error is

a

B $1-a$

1-B

118. if the equation of regression line is $y = 5$, then what result will you take out from it?

Select correct option:

The line passes through origin.

The line passes through (5, 0)

The line is parallel to y-axis.

The line is parallel to x-axis.

119. If the estimating equation is $Y = a - b X$, Which of the following is true

Select correct option:

a) The y intercept is 'b'

b) Slope of line is negative

c) There is inverse relationship

d) b & c

120. The variance of t-distribution, for $v > 2$, is always:

Select correct option:

Greater than zero

Less than one

Equal to one

Greater than one

121. Alpha is the probability of

Select correct option:

Rejecting H_0

Accepting H_0

Rejecting H_1

Accepting H_1

122. What type of data is collected in population census?

Select correct option:

Two Types

123. The collection of all outcomes for an experiment is called

Select correct option:

a sample space

the intersection of events

joint probability

population

124. Which of the graph is used for a time series data:

Select correct option:

Frequency curve

Frequency polygon

Historiogram

Histogram

125. A histogram is consists of a set of adjacent rectangles whose bases are marked off by:

Select correct option:

Class boundaries

Class limits

Class frequency

Class marks

126. The value that has half of the observations above it and half the observations below it is

known as:

Select correct option:

Mean

Median

Mode

Standard deviation

127. The height of a student is 60 inches. This is an example of

Select correct option:

Continuous data

Qualitative data

Categorical data

Discrete data

128. Range of the values -2,-3,-4,-3,-9,-2,-8,-1,0 is

Select correct option:

0
-9
89

129. If the both tails of the distribution are equal, then distribution is called:

Select correct option:

J-shaped

Symmetrical

Positively Skewed

Negatively Skewed

130. Ranking scale also include the properties of which scale?

Select correct option:

Nominal scale

Interval scale

Ratio scale

All of these

131. Range of the values -2.50,-3.70,-4.80,-3.10,-9.70,-2.20,-8.90,-1.60, 0.60 is

Select correct option:

10.03

10.30

9.10

9.00

132. What is/are the mode for the following data: 1,m,d,n,,2,d,2,d,s,5,5,7

Select correct option:

2

d5 **2,d,5**

133. If the standard deviation of a population is 5.5, the population variance is:

Select correct option:

5.5

31

25

30.25

134. What we commonly called a bell shaped distribution:

Select correct option:

syme

bi moder

u shap

skewed

135. The beginnings of a cumulative frequency distribution are presented below. What is the

next number in the Cumulative Frequency column? Classes Frequency Cumulative Frequency

6.1 to 8 1 1 8.1 to 10 2 10.1 to 12 3

Select correct option:

0

123

136. Range of the values -10,- 19, -9, -15, -28, -26, -25 is:

Select correct option:

+18

-18

-19

+19

137. Which one of the following is less than median for a symmetrical distribution:

Select correct option:

50percentile

51 percentile

2quartile

4decile

138. The value of the middle term in a ranked (ordered) data set is called the

Select correct option:

mode

mean

median

harmonic mean

139. Sum of absolute deviations of the values is least when deviations are taken from

Select correct option:

mean

median

mode

g.m

140. Statistic is a numerical quantity, which is calculated from

Select correct option:

data

observation

sample

population

141. The branch of Statistics that is concerned with the procedures and methodology for obtaining valid conclusions is called:

Select correct option:

descriptive

advance

infernetial

sample

142. How to find the class midpoint?

Select correct option:

Half the sum of upper class limit and lower class limit

Find the difference between consecutive lower limits

Count the number of observations in the class

Divide the class frequency by the number of observ

143. For given data, discuss the shape of the distribution: X f 0.2 8 1.2 15 2.2 23 3.2 40

Select correct option:

Positively skewed

Negatively skewed

Symmetric curve

U- Shaped curve

144. Data classified by attributes are called:

Select correct option:

group

qualitative

quantitative

array

if '2' is a leading digit in 24335, then what are the trailing digits in the observation to display a 'Stem-and-Leaf display'.

Select correct option:

4 335

4335

43

145. A frequency polygon is obtained by plotting the class frequencies against what?

Select correct option:

class boundary

cumulative frequency

relative frequency

mid point

146. When more values are lying at the start of the distribution, it is:

Select correct option:

u shape

positive

negative

symmetrical

147. The data for an ogive is found in which distribution:

Select correct option:

A cumulative frequency distribution

A joint frequency distribution

A frequency distribution

A relative frequency distribution

148. Which one of the following is greater than median for a symmetrical distribution:

Select correct option:

1st Decile

7th Decile

44th Percentile

14th Percentile

149. Statistics deals with

Select correct option:

Individuals

Isolated items

Isolated items

Aggregates of facts

150. Data classified by attributes are called:

Select correct option:

Grouped data

Qualitative data

Quantitative data

Arrayed data

151. As a general rule, statisticians tend to use which of the following number of classes when

arranging the data

Select correct option:

Fewer than 5

Between 5 & 20

Between 8 & 15

More than 20

152. The collection of all outcomes for an experiment is called

Select correct option:

a sample space

the intersection of events

joint probability

population

153. If $P(E)$ is the probability that an event will occur, which of the following must be false:

Select correct option:

$P(E) = -1$

$P(E) = 1$

$P(E) = 1/2$

$P(E) = 1/3$

154. If we roll a die then probability of getting a '2' will be

Select correct option:

2/6

1/6

4/6

1

155. In a multiplication theorem $P(A \cap B)$ equals:

Select correct option:

$P(A)P(B)$

$P(A) + P(B)$

$P(A) * P(B|A)$ pg 158

$P(B|A) * P(B)$

156. If $Y = 3X + 5$, then S.D of Y is equal to

Select correct option:

9 s.d(x)

3 s.d(x)

s.d(x)+5

3s.d(x)+5

157. In regression line $Y = a + bX$, X is called:

Select correct option:

Dependent variable

Independent variable

Explained variable

Regressand

158. Symbolically, a marginal probability is:

Select correct option:

$P(AB)$

$P(A \cup B)$

$P(A/B)$

$P(A)$

159. Which formula represents the probability of the complement of event A:

Select correct option:

1 + P (A)

1 - P (A)

P (A)

P (A) -1

160. If A and B are independent events with $P(A) = 0.05$ and $P(B) = 0.65$, then $P(A|B) =$

:

Select correct option:

0.65

0.05

0.03

0.07 not sure

161. The probability of drawing a 'white' ball from a bag containing 4 red, 8 black and 3 white

balls is:

Select correct option:

0 3/15

1/12

1/2

162. An expected value of a random variable is equal to:

Select correct option:

Variance

Mean

Standard deviation

Quartile

163. When we toss a fair coin 4 times, the sample space consists of....points.

Select correct option:

48 12

16

164. $5C5 =$

Select correct option:

51 10

25

165. In a probability distribution, the sum of the probabilities is equal to:

Select correct option:

0 0.1

0.5

1

166. The simultaneous occurrence of two events is called:

Select correct option:

Joint probability

Subjective probability

Prior probability

Conditional probability

167. Let E and F be events associated with the same experiment. Suppose the E and F are

independent and that $P(E) = 1/4$ and $P(F) = 1/2$ Then $P(E \cup F)$ is:

Select correct option:

1/8

3/4

7/8

5/8