

Professional Online Academy Vu Topper RM



STA301-Statistics And Probability Update MCQ'S Mid Term



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Question No:1

(Marks:1)

Vu-Topper RM

Which of the following measure is expressed in square of units?

- A. Quartile deviation
- B. Mean deviation
- C. Standard deviation

D. Variance

Question No:2

(Marks:1)

Vu-Topper RM

Deviations taken from mean can be:

A. Both negative and Positive

- B. Negative
- C. None of the above
- D. Postive

Question No:3

(Marks:1)

Vu-Topper RM

In right-skewed distributions:

- A. median > mid-quartile range > midrange
- B. median > mid-quartile range < midrange
- C. median < mid-quartile range > midrange

D. median < mid-quartile range < midrange

Question No:4

(Marks:1)

Vu-Topper RM

Correlation coefficient between two variables is calculated as 0.40, it represents:

- A. High linear relationship between variables
- B. Zero relationship between variables
- C. Weak linear relationship between variables**
- D. Square linear relationship between variables

Question No:5

(Marks:1)

Vu-Topper RM

Given the least squares regression line $\hat{Y} = 5 - 2x$:

A. None of the above

B. the relationship between x and y is negative

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- C. the relationship between x and y is positive
D. as x decreases, so does y

Question No:6

(Marks:1)

Vu-Topper RM

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

- A. None of these
B. Independent variable
C. Dependent variable
D. Intervening variable

Question No:7

(Marks:1)

Vu-Topper RM

A set that contains all possible outcomes of a system is known as:

- A. Finite Set
B. Universal Set
C. Infinite Set
D. None of these

Question No:8

(Marks:1)

Vu-Topper RM

In a box and whisker plot, variable of interest is plotted on:

- A. Vertical axis**
B. Horizontal axis
C. Both of these
D. None of these

Question No:9

(Marks:1)

Vu-Topper RM

For a perfect symmetric curve distance from Q1 to median is

..... to the distance from median to Q3.

- A. None of the above
B. Equal
C. Less
D. Greater

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Question No:10

(Marks:1)

Vu-Topper RM

When the curve is neither very peaked nor very flat, it is called:

A. Leptokurtic

B. Mesokurtic

C. Hetrokurtic

D. Platykurtic

Question No:11

(Marks:1)

Vu-Topper RM

Five number summary gives good idea about the _____ of the distribution.

A. Correlation

B. Average

C. Regression

D. Shape

Question No:12

(Marks:1)

Vu-Topper RM

For symmetric distribution, kurtosis value is equal to:

A. 0

B. 1

C. 3

D. 2

Question No:13

(Marks:1)

Vu-Topper RM

In absolute measures of dispersion our answer is expressed in the units as our original data set.

A. equal

B. Same

C. Different

D. Unitless

Question No:14

(Marks:1)

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How many percent corresponds to Q1 if you will interpret it?

A. 80%

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B. 25%

C. 50%

D. 75%

Question No:15

(Marks:1)

Vu-Topper RM

Which scale of measurement is most appropriate for measuring an employee's salary?

A. Ordinal

B. Interval

C. Nominal

D. Ratio

Question No:16

(Marks:1)

Vu-Topper RM

The data presented in the form of frequency data is known as

A. ungrouped data

B. secondary data

C. calculated data

D. grouped data

Question No:17

(Marks:1)

Vu-Topper RM

Sample statistics are denoted by the

A. associated roman alphabets

B. roman letters

C. lower case Greek letter

D. upper case Greek letter

Question No:18

(Marks:1)

Vu-Topper RM

If the co-efficient of dispersion for data set "A" is 0.7 and for data set "B" is 0.5. It indicates that:

A. Spread of Data set "A" is equal to Data set "B"

B. Spread of Data set "A" is greater than Data set "B"

C. Spread of Data set "B" is greater than Data set "A"

D. It is meaningless

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Question No:19

(Marks:1)

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If X_0 is the smallest value and X_m is the largest value in a data set then, range is defined by the relation:

- A. X_0
- B. X_m
- C. $X_m - X_0$**
- D. $X_0 - X_m$

Question No:20

(Marks:1)

Vu-Topper RM

Which of the following measure is useful for comparison of data of different nature?

- A. Coefficient of variation**
- B. Standard deviation
- C. Harmonic mean
- D. Geometric mean

Question No:21

(Marks:1)

Vu-Topper RM

Range is a/an measure of dispersion:

- A. None of the above
- B. Both Absolute and Relative
- C. Absolute**

Question No:22

(Marks:1)

Vu-Topper RM

Relative measure of dispersion for range is:

- A. Co-efficient of dispersion
- B. Mid Range
- C. Semi-inter quartile range
- D. Half Range**

Question No:23

(Marks:1)

Vu-Topper RM

Which of the following technique is not used to represent the univariate qualitative data?

- A. Percentage

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B. Bar chart

C. Multiple bar chart

D. Pie chart

Question No:24

(Marks:1)

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Which measure of central tendency takes into account the magnitude of scores?

A. Median

B. Range

C. Mode

D. Mean

Question No:25

(Marks:1)

Vu-Topper RM

A frequency polygon is obtained by plotting the class frequencies against:

A. Class boundaries

B. Mid-points of the classes

C. Cumulative frequencies

D. Relative frequencies

Question No:26

(Marks:1)

Vu-Topper RM

Which of the following is independent of units of measurement?

A. Simple dispersion

B. All of these

C. Relative dispersion

D. Absolute dispersion

Question No:27

(Marks:1)

Vu-Topper RM

Which of the following is not an example of condensed data?

A. Frequency distribution

B. Data array

C. Histogram

D. Polygon

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Question No:28

(Marks:1)

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If diabetes is graded as mild, moderate, and severe, the scale of measurement used is:

- A. interval
- B. nominal
- C. ratio
- D. ordinal**

Question No:29

(Marks:1)

Vu-Topper RM

A component bar chart in which

- A. The horizontal or vertical bars of equal width and lengths
- B. The value of a common variable in the form of grouped bars
- C. Each bar is divided into two or more sections**

Question No:30

(Marks:1)

Vu-Topper RM

The median is _____:

- A. Affected by extreme scores
- B. The average
- C. The highest number
- D. The middle point**

Question No:31

(Marks:1)

Vu-Topper RM

A diagram in which each circle is divided into different sectors is called

- A. Pie Chart**
- B. Multiple Bar Chart
- C. Component Bar Chart
- D. Simple Bar Chart

Question No:32

(Marks:1)

Vu-Topper RM

Which of the following is NOT considered a scale of measurement?

- A. Ratio
- B. Ordinal
- C. Nominal

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D. Quantitative

Question No:33

(Marks:1)

Vu-Topper RM

Which of the following is called measure of central tendency?

- A. Harmonic mean
- B. Mean
- C. Geometric mean

D. All of these

Question No:34

(Marks:1)

Vu-Topper RM

In case of a frequency distribution, the 90th percentile is given by the formula:

- A. $l + \frac{h}{f} (90n/100 - c)$**
- B. $l + \frac{h}{f} (n/100 - 90c)$
- C. $l + \frac{f}{h} (90n/100 - c)$
- D. $l + \frac{f}{h} (100n/90 - c)$

Question No:35

(Marks:1)

Vu-Topper RM

The _____ is often the preferred measure of central tendency if the data are severely skewed.

- A. Geometric Mean
- B. Median**
- C. Mean
- D. Mode

Question No:36

(Marks:1)

Vu-Topper RM

When each observation has not an equal importance in a data, then average is used:

- A. Harmonic mean
- B. Arithmetic mean
- C. Weighted mean**
- D. Geometric mean

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Question No:37

(Marks:1)

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Which of the following is a true statement about the median?

- A. Fifty percent of the observations are larger than the median
- B. It is the middle value of the data values**
- C. It is always one of the data values
- D. It is influenced by extreme values

Question No:38

(Marks:1)

Vu-Topper RM

How many percent corresponds to D6 if you will interpret it?

- A. 80%
- B. 40%
- C. 20%
- D. 60%**

Question No:39

(Marks:1)

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A bell shaped distribution is also known as:

- A. Symmetrical**
- B. U shaped
- C. Skewed
- D. Bimodal

Question No:40

(Marks:1)

Vu-Topper RM

The height of a student is 70 inches. This is an example of which type of data?

- A. Qualitative
- B. Discrete
- C. Continuous**
- D. Categorical

Question No:41

(Marks:1)

Vu-Topper RM

If A and B are sets and $A \cup B = A \cap B$, then:

- A. $A \neq B$
- B. $A = \Phi$

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C. $A = B$

D. $B = \Phi$

Question No:42

(Marks:1)

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If $A = \{1,2,3,4\}$ and $B = \{3,4,5,6\}$ then $A - B$ will be:

A. $\{3,4\}$

B. $\{1,2,3,4,5,6\}$

C. $\{1,2\}$

Question No:43

(Marks:1)

Vu-Topper RM

In how many ways can the letters of the word 'LEADER' be arranged?

A. 72

B. 140

C. 5040

D. 360

Question No:44

(Marks:1)

Vu-Topper RM

Suppose that a sample space S consists of four simple events: $A, B, C,$ and D . That is $S = \{A, B, C, D\}$. If $P(A) = .4, P(B) = .3, P(C) = .2$, what is $P(D)$?

A. 0.1

B. 0.2

C. None of them

D. 0.9

Question No:45

(Marks:1)

Vu-Topper RM

The probability of an event always lies between:

A. 1 and + 1

B. $-\infty$ and $+\infty$

C. 0 and ∞

D. 0 and 1

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Question No:46

(Marks:1)

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One card is drawn at random from a pack of 52 cards. What is the probability that the card drawn is a face card (Jack, Queen and King only)?

- A. 1/4
- B. 9/52
- C. 1/13
- D. 3/13**

Question No:47

(Marks:1)

Vu-Topper RM

A fair coin is tossed four times. What is the probability that at least one tail appears?

- A. 15/16**
- B. 1/16
- C. 4/16
- D. 8/16

Question No:48

(Marks:1)

Vu-Topper RM

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

- A. Regressand
- B. Dependent variable
- C. Explained variable
- D. Independent variable**

Question No:49

(Marks:1)

Vu-Topper RM

In how many ways a committee, consisting of 5 men and 6 women can be formed from 8 men and 10 women?

- A. 5040
- B. 450
- C. 780
- D. 11760**

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Question No:50

(Marks:1)

Vu-Topper RM

Open-ended questions provide primarily _____ data.

A. Predictive data

B. Qualitative data

C. None of the above

D. Confirmatory data

Question No:51

(Marks:1)

Vu-Topper RM

Which of the following method of skewness is a pure number/unitless?

A. Fisher

B. Bowleys

C. Sheppard

D. Pearson

Question No:52

(Marks:1)

Vu-Topper RM

In a linear regression, the degree of scatter of the observed values about the regression line is measured by:

A. Standard error of estimate

B. Median

C. Mean

D. Mean deviation

Question No:53

(Marks:1)

Vu-Topper RM

The first moment about mean is:

A. 0

B. 1

C. 2

D. All of the above

Question No:54

(Marks:1)

Vu-Topper RM

If a distribution has positive skewness, in what order (highest to lowest) will the averages be?

A. median, mode, mean

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B. mean, median, mode

- C. mean, mode, median
D. mode, median, mean

Question No:55

(Marks:1)

Vu-Topper RM

If we calculate the probability of an event and it turns out to be .7, we know that:

A. we made a mistake

- B. the event is probably going to happen
C. . the probability of it not happening is .3
D. the event is probably not going to happen

Question No:56

(Marks:1)

Vu-Topper RM

The number of ways in which four books can be arranged on a shelf are:

- A. 4
B. 6
C. 12
D. 24

Question No:57

(Marks:1)

Vu-Topper RM

Relationships among the averages

- A. $HM \leq GM \leq AM$**
B. $GM \leq HM \leq AM$
C. None of the above
D. $HM \geq GM \geq AM$

Question No:58

(Marks:1)

Vu-Topper RM

Statistics branches include

- A. Industry Statistics
B. Mathematical Statistics
C. Applied Statistics
D. Both Applied and Mathematical

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Question No:59

(Marks:1)

Vu-Topper RM

In a frequency distribution the categories must

- A. Be of the same size
- B. Mathematical Statistics
- C. Have at least 5 observations
- D. Be mutually exclusive**

Question No:60

(Marks:1)

Vu-Topper RM

If the relative frequencies are used, the cumulative frequency polygon rises _____

- A. From the value 0 at left to the value 1 at right**
- B. From the value 1 at left to the value 0 at right
- C. From the value 0 at right to the value 1 at left
- D. None of these

Question No:61

(Marks:1)

Vu-Topper RM

According to the property of parameter, it is

- A. Continuous
- B. Constant**
- C. Discrete
- D. Variable

Question No:62

(Marks:1)

Vu-Topper RM

Data arrangement in order of magnitude is called:

- A. Grouped data
- B. Arrayed data**
- C. Frequency distribution
- D. Raw data

Question No:63

(Marks:1)

Vu-Topper RM

From the following table, what is the Upper limit of the 3 class?

Class	Frequency
30.0 - 32.9	2
33.0 - 35.9	4
36.0 - 38.9	14
39.0 - 41.9	8
42.0 - 44.9	2

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- A. 42.0
- B. 33.0
- C. 38.9**
- D. 35.9

Question No:64 (Marks:1) **Vu-Topper RM**

Which one of the following is equal to mean in a symmetrical distribution:

- A. 50th Percentile**
- B. 5th Decile
- C. All of these
- D. 2nd Quartile

Question No:65 (Marks:1) **Vu-Topper RM**

Temperature, in Fahrenheit, is an example of a variable measured on the following scale:

- A. Ordinal
- B. Nominal
- C. Interval**
- D. Ratio

Question No:66 (Marks:1) **Vu-Topper RM**

If in a set of discrete values, 50 percent values are greater than 25, then Q2 is

- A. 20
- B. 75
- C. 25**
- D. 50

Question No:67 (Marks:1) **Vu-Topper RM**

In a histogram the area of each rectangle is proportional to:

- A. Frequency of the corresponding class interval**
- B. Cumulative frequency of the corresponding class interval

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- C. The class mark of the corresponding class interval
D. The class size of the corresponding class interval

Question No:68

(Marks:1)

Vu-Topper RM

Half of the observations are always larger than:

- A. Mode
B. Median
C. Mean
D. Total

Question No:69

(Marks:1)

Vu-Topper RM

If the GM of a set of two observations is 10 and its HM is 8. then the AM of the set of observations is

- A. 64
B. 100
C. 7.5
D. 12.5

Question No:70

(Marks:1)

Vu-Topper RM

The total of frequency up to an upper class limit or boundary is known as:

- A. cumulative frequency**
B. frequency polygon
C. average frequency
D. frequency distribution

Question No:71

(Marks:1)

Vu-Topper RM

A scale in which objects are rank ordered according to how much of the attribute they possess, with equal space between objects.

- A. Nominal
B. Interval
C. Ratio
D. Ordinal

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Question No:72

(Marks:1)

Vu-Topper RM

For the given set of observations 1,4,4,4 and 7, it can be said that the:

A. Mean=Median=Mode

B. None of the above

C. Mean>Median>Mode

D. mean is larger than either median or mode

Question No:73

(Marks:1)

Vu-Topper RM

Quota sampling is an example of:

A. None of these

B. Random sampling

C. Simple random sampling

D. Non random sampling

Question No:74

(Marks:1)

Vu-Topper RM

How many percent corresponds to Q3 if you will interpret it?

A. 75%

B. 25%

C. 50%

D. 90%

Question No:75

(Marks:1)

Vu-Topper RM

If the sum of the reciprocal of the values of a data is 256.7 and $n=23$, then Harmonic mean will be:

A. 0.0789

B. 0.0624

C. 0.0895

D. 0.0569

Question No:76

(Marks:1)

Vu-Topper RM

The mean of a distribution is 23, the median is 24 and the mode is 25.5.

It is most likely that this distribution is:

A. Symmetrical

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- B. Asymptotic
C. Positively Skewed
D. Negatively Skewed

Question No:77

(Marks:1)

Vu-Topper RM

In symmetrical distribution:

- A. mean=median=mode**
B. mean=median=mode
C. Mean>median>mode
D. mean<median<mode

Question No:78

(Marks:1)

Vu-Topper RM

A chart consists of horizontal or vertical bars of equal width and lengths proportional to values they represent

- A. multiple bar chart
B. pie chart
C. simple bar chat
D. component bar chart

Question No:79

(Marks:1)

Vu-Topper RM

For the digit 40, leaf will be:

- A. 1
B. 2
C. 4
D. 0

Question No:80

(Marks:1)

Vu-Topper RM

The mean is obtained by

- A. Most frequent value in the data set
B. Dividing the sum of all observations by their number
C. Divides a set of data into two equal parts
D. None of these

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Question No:81

(Marks:1)

Vu-Topper RM

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 18.1 to 10 2 10.1 to 12 3

A. 2

B. 0

C. 3

D. 1

Question No:82

(Marks:1)

Vu-Topper RM

From the table given below, how many students obtained marks 80 or above:
Marks f
50-59 5
60-69 8
70-79 7
80-89 5
90-100 3

A. 8

B. 5

C. 3

D. 15

Question No:83

(Marks:1)

Vu-Topper RM

What is/are the mode for the following data:

1,1,2,2,5,5,7,7

A. 1,2

B. No mode in the data

C. 1,2,5

D. 1,2,5,7

Question No:84

(Marks:1)

Vu-Topper RM

A list of pulse rates is: 70, 64, 70, 80, 74, 92. What is the mode for this list?

A. 80

B. 72

C. 76

D. 70

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Question No:85

(Marks:1)

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If we want to calculate annual increase in a firm then which of the following average will be used?

A. Geometric mean

B. Mode

C. Mean

D. Harmonic mean

Question No:86

(Marks:1)

Vu-Topper RM

If you have 26.95 – 29.95 class boundaries then the mid point will be:

A. 31.45

B. 30.45

C. 28.45

D. 29.45

Question No:87

(Marks:1)

Vu-Topper RM

Find the mean of the values 2,4,6,8.

A. 4

B. 20

C. 10

D. 5

Question No:88

(Marks:1)

Vu-Topper RM

A number of fishes in a pond is an example of:

A. Finite population

B. Infinite population

C. Hypothetical population

D. None of these

Question No:89

(Marks:1)

Vu-Topper RM

In a frequency distribution, which of the following is sometimes referred to as the class mark?

A. frequency

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- B. cumulative frequency
- C. relative frequency
- D. class midpoint**

Question No:90 (Marks:1)

Vu-Topper RM

What is the mode in the word TOMATO.

- A. M
- B. O**
- C. T and O
- D. T

Question No:91 (Marks:1)

Vu-Topper RM

In a shoes store, the average size is used as:

- A. GM
- B. Mode
- C. Mean**
- D. Median

Question No:92 (Marks:1)

Vu-Topper RM

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

- A. 2
- B. 2.d.5
- C. 5
- D. d**

Question No:93 (Marks:1)

Vu-Topper RM

Village patwari collecting the data about cotton crops is the example of:

- A. Secondary data
- B. Primary data**
- C. Quantitative data
- D. Numerical data

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Question No:94

(Marks:1)

Vu-Topper RM

Which scale of measurement is more suitable in the following example? The number of minutes of overtime work that employees perform.

- A. Nominal
- B. Ordinal
- C. Ratio**
- D. Interval

Question No:95

(Marks:1)

Vu-Topper RM

In how many different ways can the letters of the word 'LEADING' be arranged in such a way that the vowels always come together?

- A. 5040
- B. 720**
- C. 650
- D. 860

Question No:96

(Marks:1)

Vu-Topper RM

If $A = \{1,2,3,4\}$ and $B = \{3,4,5,6\}$ then $A \cup B$ will be:

- A. $\{3,4\}$
- B. $\{1,2,3,4,5,6\}$**
- C. $\{1,2\}$
- D. $\{2,1\}$

Question No:97

(Marks:1)

Vu-Topper RM

A set which is the sub-set of every set is

- A. Super Set
- B. Empty Set**
- C. Universal Set
- D. Power Set

Question No:98

(Marks:1)

Vu-Topper RM

If $A = \{1,2,3,4\}$ and $B = \{3,4,5,6\}$ then $A \cap B$ will be:

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- A. {2}
- B. {1,2}
- C. {3,4}**
- D. {1}

Question No:99 (Marks:1) **Vu-Topper RM**

In a coin tossing example, we have only two possible outcomes, a head or a tail; this is an example of :

- A. Equally likely events**
- B. None of these
- C. Both of these
- D. Mutually exclusive events

Question No:100 (Marks:1) **Vu-Topper RM**

The Probability of a sure event is:

- A. 0
- B. 1**
- C. 8
- D. 0.5

Question No:101 (Marks:1) **Vu-Topper RM**

What are the chances that no two boys are sitting together for a photograph if there are 5 girls and 2 boys?

- A. 1/21
- B. 4/7
- C. 2/7
- D. 5/7**

Question No:102 (Marks:1) **Vu-Topper RM**

In a class, there are 15 boys and 10 girls. Three students are selected at random. The probability that 1 girl and 2 boys are selected, is:

- A. 27/112
- B. 21/46**

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- C. 3/25
D. 1/50

Question No:103

(Marks:1)

Vu-Topper RM

For two mutually exclusive events A and B, $P(A) = 0.1$ and $P(B) = 0.4$, then $P(A \cup B)$ is:

- A. 0.1
B. 0.5
C. 0.3
D. 0.4

Question No:104

(Marks:1)

Vu-Topper RM

Two dice are thrown simultaneously. What is the probability of getting two numbers whose product is even?

- A. 1/2**
B. 3/4
C. 3/8
D. 5/16

Question No:105

(Marks:1)

Vu-Topper RM

If $P(B) = 0.75$, $P(A) = 0.35$ and $P(A \text{ and } B) = 0.20$, then $P(B | A)$ is:

- A. 0.57**
B. 0.27
C. 0.32
D. 0.41

Question No:106

(Marks:1)

Vu-Topper RM

The probability of drawing a red Jack from well-shuffled pack of 52 playing cards is:

- A. 4/52
B. 26/50
C. 2/52
D. 13/52

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Question No:107

(Marks:1)

Vu-Topper RM

Order of the power set of a set of order n is

- A. n^2
- B. 2^n**
- C. n
- D. n^2

Question No:108

(Marks:1)

Vu-Topper RM

Two cards are drawn together from a pack of 52 cards. The probability that one is a spade and one is a heart, is:

- A. $2/20$
- B. $29/30$
- C. $47/100$
- D. $13/102$**

Question No:109

(Marks:1)

Vu-Topper RM

17 students are present in a class. In how many ways, can they be made to stand in 2 circles of 8 and 9 students?

- A. $17C8 \times 8! \times 9!$**
- B. $8! \times 7!$
- C. $17C9 \times 8! \times 7!$
- D. $17C9 \times 9! \times 8!$

Question No:110

(Marks:1)

Vu-Topper RM

By using identity law $A \cup S$ is equal to:

- A. None of them
- B. $A \cap S$
- C. S**
- D. A

Question No:111

(Marks:1)

Vu-Topper RM

What is the Cartesian product of $A = \{1, 2\}$ and $B = \{a, b\}$?

- A. $\{(1, a), (2, a), (1, b), (2, b)\}$**

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- B. $\{(1, 1), (a, a), (2, a), (1, b)\}$
- C. $\{(1, a), (1, b), (2, a), (b, b)\}$
- D. $\{(1, 1), (2, 2), (a, a), (b, b)\}$

Question No:112

(Marks:1)

Vu-Topper RM

We use the General Rule of Multiplication to combine:

- A. Events that total more than 1.00
- B. Mutually exclusive events
- C. Events those are not independent**
- D. Events based on subjective probabilities

Question No:113

(Marks:1)

Vu-Topper RM

What does an each outcome in the sample space regarded as

- A. Element
- B. Sample point
- C. Both a & b**
- D. None of the above

Question No:114

(Marks:1)

Vu-Topper RM

A card is drawn from a pack of 52 cards. The probability of getting a queen of club or a king of heart is:

- A. $1/13$
- B. $1/26$**
- C. $2/13$
- D. $1/50$

Question No:115

(Marks:1)

Vu-Topper RM

A standard deck of 52 cards is shuffled. What is the probability of choosing a card which is not a diamond:

- A. $1/13$
- B. $5/52$
- C. $39/53$**
- D. $13/50$

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Question No:116

(Marks:1)

Vu-Topper RM

Complement of the event B will be

- A. $P(B)$
- B. $P(B) - 1$
- C. $1 - P(B)$**
- D. $1 + P(B)$

Question No:117

(Marks:1)

Vu-Topper RM

If A and B are mutually exclusive events and $P(A) = 4/36$ and $P(B) = 6/36$, then $P(A \cup B)$ will be

- A. $5/36$
- B. $11/36$
- C. $9/36$
- D. $10/36$**

Question No:118

(Marks:1)

Vu-Topper RM

An urn contain 10 articles, 2 having minor Defects and three have major defects. Determine the probability that an article selected at random has minor defect.

- A. $1/2$
- B. $1/4$
- C. $1/3$
- D. $1/5$**

Question No:119

(Marks:1)

Vu-Topper RM

If a die is rolled, what is the probability of getting an even number greater than 2?

- A. $5/6$
- B. $2/3$
- C. $1/3$**
- D. $1/2$

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Question No:120

(Marks:1)

Vu-Topper RM

Two mutually exclusive (disjoint) events:

- A. are always independent
- B. have the same probability
- C. have no effect on the occurrence of each other can be independent
- D. cannot occur together**

Question No:121

(Marks:1)

Vu-Topper RM

The probability of drawing 'zero white' ball from a bag containing 4 red, 8 black and 3 white balls is:

- A. 12/15**
- B. 1/2
- C. 8/15
- D. 0

Question No:122

(Marks:1)

Vu-Topper RM

When a fair coin is tossed, what is the probability of getting head.

- A. All
- B. 1
- C. 1/2**
- D. 0

Question No:123

(Marks:1)

Vu-Topper RM

If $P(A) = 0.45$, $P(B) = 0.35$ and $P(B \text{ and } A) = 0.25$, then $P(B | A)$ is:

- A. 0.801
- B. 0.750
- C. 0.751
- D. 0.555**

Question No:124

(Marks:1)

Vu-Topper RM

If a box contains two red and three yellow balloons then probability of yellow balloons will be equal to:

- A. 2/5

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- B. 1/5
- C. 3/5**
- D. 4/5

Question No:125 (Marks:1) **Vu-Topper RM**

When three coins are tossed simultaneously, P (3 Heads) is:

- A. 3/8
- B. 2/8
- C. 1/8**
- D. 4/8

Question No:126 (Marks:1) **Vu-Topper RM**

When two coins are tossed simultaneously, what are the chances of getting at least one tail?

- A. 1/5
- B. 1/4
- C. 4/5
- D. 3/4**

Question No:127 (Marks:1) **Vu-Topper RM**

Which of the following is NOT a possible probability?

- A. 1
- B. 0
- C. 1.25**
- D. 25/100

Question No:128 (Marks:1) **Vu-Topper RM**

A group consists of three persons, A, B, & C. How many ways are there of selecting a group of two persons out of these three?

- A. 2
- B. 6
- C. 3**
- D. 1

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Question No:129

(Marks:1)

Vu-Topper RM

Which of the following best expresses the General Addition Rule?

- A. None of the above.
- B. $P(A \text{ or } B) = P(A) + P(B)$
- C. $P(A \text{ or } B) = P(A) + P(B) + P(A \text{ and } B)$
- D. $P(A \text{ or } B) = P(A) + P(B) - P(A \text{ and } B)$**

Question No:130

(Marks:1)

Vu-Topper RM

A bag contains 4 white, 5 red and 6 blue balls. Three balls are drawn at random from the bag. The probability that all of them are red, is:

- A. $2/77$
- B. $2/91$**
- C. $1/22$
- D. $3/22$

Question No:131

(Marks:1)

Vu-Topper RM

When the union of mutually exclusive events is equal to entire sample space, it is called:

- A. Mutually exclusive events
- B. Random events
- C. Exhaustive events**
- D. Equally likely events

Question No:132

(Marks:1)

Vu-Topper RM

The occurrence of sum of 11 when a pair of die is thrown is an example of:

- A. Compound event
- B. Simple event**
- C. Mutually exclusive event
- D. Random event

Question No:133

(Marks:1)

Vu-Topper RM

If a coin is tossed 3 times then probability that three tails appear

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simultaneously is equal to:

- A. 1/8**
- B. 1/4
- C. 1/6
- D. 1/2

Question No:134

(Marks:1)

Vu-Topper RM

0! is equal to:

- A. 0
- B. 1**
- C. 0 and 1
- D. None

Question No:135

(Marks:1)

Vu-Topper RM

A graphical device used to list all possibilities of a sequence of outcomes in systematic way is called:

- A. Pie diagram
- B. Venn diagram
- C. Probability histogram
- D. Tree diagram**

Question No:136

(Marks:1)

Vu-Topper RM

If a player well shuffles the pack of 52 playing cards, then the probability of a red card from 52 playing cards is:

- A. 2/52
- B. 26/52**
- C. 4/25
- D. 1/25

Question No:137

(Marks:1)

Vu-Topper RM

Consider a set $S = \{a, b, c, d, e\}$. Which set will make the PARTITION of S?

- A. $\{ \}$ and $\{ a, b, c, d, e \}$

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- B. {a, b} and {c, d, e}**
C. {a, b, c} and {c, d, e}
D. {a, b}, {c, d} and {a, e}

Question No:138 (Marks:1) **Vu-Topper RM**
If median < mid-quartile range < midrange then distribution will be:

- A. Symmetrical
B. Negatively skewed
C. Positively skewed
D. Zero skewed

Question No:139 (Marks:1) **Vu-Topper RM**
Find the mean of the values 2,4 ,7,8,9

- A. 6**
B. 5
C. 3
D. 30

Question No:140 (Marks:1) **Vu-Topper RM**
For a positively skewed distribution median is To/than the mid quartile range

- A. None of the above
B. Equal
C. Greater
D. Less

Question No:141 (Marks:1) **Vu-Topper RM**
Which of the following measures based on all observations?

- A. Standard deviation
B. Mean deviation
C. None of these
D. Mean deviation and Standard deviation

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Question No:142

(Marks:1)

Vu-Topper RM

The mean of a distribution is 25, the mode is 25 and the standard deviation is 5, then the coefficient of skewness will be:

- A. Less than zero
- B. None of the above
- C. Greater than zero
- D. Equal to zero**

Question No:143

(Marks:1)

Vu-Topper RM

Dividing mean deviation by mean we get a pure number known as

- A. Co-efficient of quartile deviation
- B. Co-efficient of mean deviation**
- C. None of the above
- D. Co-efficient

Question No:144

(Marks:1)

Vu-Topper RM

If coefficient of skewness is equal to "0" then distribution will be:

- A. Positively skewed
- B. Symmetrical**
- C. Negatively skewed
- D. Asymmetrical

Question No:145

(Marks:1)

Vu-Topper RM

Bowley's coefficient of skewness is expressed in terms of:

- A. Square of units
- B. Different units
- C. Same units
- D. Independent of units**

Question No:146

(Marks:1)

Vu-Topper RM

When the peak of the curve becomes relatively high, it is called:

- A. Hetrokurtic
- B. Platykurtic

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- C. Mesokurtic
D. Leptokurtic

Question No:147 (Marks:1) **Vu-Topper RM**

For a symmetrical data set mean value is 150 and standard deviation 25.
68% values will lie between

- A. (125,175)**
B. (110,190)
C. (100,200)
D. (125,180)

Question No:148 (Marks:1) **Vu-Topper RM**

First moment about origin is always equal to:

- A. Mean**
B. Standard Deviation
C. Variance
D. Zero

Question No:149 (Marks:1) **Vu-Topper RM**

For a particular data set the Pearson's coefficient of skewness is greater than zero. What will be the shape of distribution?

- A. Symmetrical
B. Positively Skewed
C. Negatively Skewed
D. None of the above

Question No:150 (Marks:1) **Vu-Topper RM**

In a left skewed distribution:

- A. $X_m - Q_3$ greater than $Q_1 - X_0$**
B. $X_m - Q_3$ less and equal to $Q_1 - X_0$
C. $X_m - Q_3$ less than $Q_1 - X_0$
D. $X_m - Q_3$ greater and equal to $Q_1 - X_0$

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Question No:151

(Marks:1)

Vu-Topper RM

Which of the rule gives no information about the probability of observing a value within one standard deviation of the mean?

- A. Permutation rule
- B. Combination rule
- C. Empirical rule
- D. Chebychev's rule**

Question No:152

(Marks:1)

Vu-Topper RM

If in a simple linear regression model it is assumed that the intercept parameter is equal to 0:

- A. The slope of the line will also be equal to 0
- B. The regression line will pass through the point (0,10)
- C. The regression line will pass through the origin**
- D. The regression line will pass through the point (0,-10)

Question No:153

(Marks:1)

Vu-Topper RM

Pearson's coefficient of skewness cannot be used when standard deviation is:

- A. 0**
- B. 3
- C. 1.5
- D. 1

Question No:154

(Marks:1)

Vu-Topper RM

Which of the following method of skewness based on mean, median, mode?

- A. Pearson
- B. Bowleys**
- C. Fisher
- D. Sheppred

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Question No:155

(Marks:1)

Vu-Topper RM

Kurtosis is used to represent the degree of peakedness/flatness about a:

- A. Trimodal distribution
- B. Multinomial distribution
- C. Unimodal distribution**
- D. Bimodal distribution

Question No:156

(Marks:1)

Vu-Topper RM

Pearson coefficient of skewness is defined as:

- A. $SD/(Mean-Mode)$
- B. $(Median-Mode)/SD$
- C. $SD/(Median-Mode)$
- D. $(Mean-Mode)/SD$**

Question No:157

(Marks:1)

Vu-Topper RM

If we have mean=6, median =5 and standard deviation = 4 then the Pearson's Coefficient of Skewness will be:

- A. 0.5
- B. 0.25
- C. 0.7
- D. 0.75**

Question No:158

(Marks:1)

Vu-Topper RM

Putting the value of "k" which is greater than one in Chebyshev's inequality we get the proportion of values that lies in that range.

- A. Minimum**
- B. Optimum
- C. Maximum
- D. None of the above

Question No:159

(Marks:1)

Vu-Topper RM

Standard Deviation is measure of dispersion.

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- A. A pure number
- B. A relative
- C. An absolute**
- D. None

Question No:160

(Marks:1)

Vu-Topper RM

Given the least squares regression line $\hat{Y} = 2 + 0.3x$:

- A. the relationship between x and y is negative
- B. None of the above
- C. the relationship between x and y is positive.**
- D. as x decreases, so does y

Question No:161

(Marks:1)

Vu-Topper RM

Which of the following method of skewness based on quartiles?

- A. Bowleys**
- B. Pearson
- C. Fisher
- D. Sheppard

Question No:162

(Marks:1)

Vu-Topper RM

When the mean deviation is calculated by taking deviations around median; then co-efficient of mean deviation is obtained dividing mean deviation by:

- A. Mode
- B. Mean
- C. Median**
- D. All above

Question No:163

(Marks:1)

Vu-Topper RM

The distribution will be symmetrical. IF

- A. None of the above
- B. $\text{median} > \text{midquartilerange} > \text{midrange}$
- C. $\text{median} = \text{midquartilerange} = \text{midrange}$**

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D. median < midquartile range < midrange

Question No:164

(Marks:1)

Vu-Topper RM

In a five number summary, for a symmetrical distribution:

A. Distance between Q1 and median equals to distance from median to Q3

B. Distance from X_0 to Q1 equals to the distance from Q3 to X_m

C. Median, the mid-quartile range and the midrange would be equal.

D. All of above

Question No:165

(Marks:1)

Vu-Topper RM

For empirical rule approximately all observations fall within

A. $\bar{X} \pm 0.5\sigma$

B. $\bar{X} \pm 3\sigma$

C. $\bar{X} \pm 2\sigma$

D. $\bar{X} \pm 1\sigma$

Question No:166

(Marks:1)

Vu-Topper RM

According to Chebychev's rule, at least 8/9 of the data values will fall within:

A. (Mean-3S.D, Mean+3S.D)

B. None of these

C. (Mean-2S.D, Mean+2S.D)

D. (Mean-S.D, Mean+S.D)

Question No:167

(Marks:1)

Vu-Topper RM

Moment ratio b_2 is used to measure:

A. Symmetry

B. Kurtosis

C. Mean

D. Skewness

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Question No:168

(Marks:1)

Vu-Topper RM

Standard Deviation of 64 is:

- A. 8**
- B. 3
- C. 4
- D. 10

Question No:169

(Marks:1)

Vu-Topper RM

If median > mid-quartile range > midrange then distribution will be:

- A. Zero skewed
- B. Symmetrical
- C. Positively skewed**
- D. Negatively skewed

Question No:170

(Marks:1)

Vu-Topper RM

When a researcher want to compare intensity of symptoms when different doses are administered. In this case, "intensity of symptoms" will be treated as:

- A. Discrete variable
- B. Independent variable
- C. Dependent variable**
- D. Quantitative variable

Question No:171

(Marks:1)

Vu-Topper RM

When our data set contains a few very high or a few very low values we use as a representaitve average.

- A. All above
- B. Median**
- C. Mean
- D. Mode

Question No:172

(Marks:1)

Vu-Topper RM

In a five number summary, which of the following is not used for data

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summarization?

- A. the mean**
- B. the 25th percentile
- C. the largest value
- D. the smallest value

Question No:173

(Marks:1)

Vu-Topper RM

According to Empirical rule, approximately 95% of the measurements will fall within:

- A. (Mean-2S.D, Mean+2S.D)**
- B. (Mean-S.D, Mean+S.D)
- C. None of these
- D. (Mean-3S.D, Mean+3S.D)

Question No:174

(Marks:1)

Vu-Topper RM

For a Normal distribution, b_2 (moment ratio) will be:

- A. Equal to zero
- B. Equal to 3**
- C. Greater than 3
- D. Less than 3

Question No:175

(Marks:1)

Vu-Topper RM

The distribution will be negatively skewed if:

- A. Q_2 closer to Q_3
- B. $Q_1=Q_3$
- C. Q_1 closer to Q_2**
- D. $Q_1=Q_2$

Question No:176

(Marks:1)

Vu-Topper RM

For a non-symmetric (Skewed) distributions median is than/to mean

- A. Equal
- B. Greater

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C. Greater or less (Not equal)

D. Less

Question No:177

(Marks:1)

Vu-Topper RM

In a Box and Whisker plot, if the median line is closer to the left of the box then distribution will be:

A. Positively skewed

B. Symmetrical

C. Negatively skewed

D. Zero skewed

Question No:178

(Marks:1)

Vu-Topper RM

Positive square root of variance is known as:

A. Rang

B. Quartile deviation

C. Standard deviation

Page 91

D. only (a) &(c)

Question No:179

(Marks:1)

Vu-Topper RM

Given $P(A) = 0.4$, $P(B) = 0.5$ and $P(A \cup B) = 0.9$, then:?

A. A and B are independent events

B. A and B are equally likely events

C. A and B are mutually exclusive events

D. A and B are not mutually exclusive events

Question No:180

(Marks:1)

Vu-Topper RM

In measures of relative dispersion, unit of measurement remains:

A. Different

B. Free of units

C. Square of units

D. same

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Question No:181

(Marks:1)

Vu-Topper RM

What does the set comprising all possible outcomes of an experiment known as?

- A. Sure event**
- B. Null event
- C. Elementary event
- D. None of the these

Question No:182

(Marks:1)

Vu-Topper RM

Chebyshev's inequality does not hold for $k = ?$

- A. 3
- B. 2
- C. 1

D. 0 **Page 94**

Question No:183

(Marks:1)

Vu-Topper RM

According to Empirical rule, approximately 68% of the measurements will fall within:

- A. (Mean – S.D, Mean + S.D)**
- B. (Mean – 2S.D, Mean + 2S.D)
- C. (Mean – 3S.D, Mean + 3S.D)
- D. None of these

Page 90

Question No:184

(Marks:1)

Vu-Topper RM

For Platykurtic distribution, b_2 (moment ratio) will be:

- A. Greater than 3
- B. Less than 3**
- C. Equal to 3
- D. Equal to zero

Page 114

Question No:185

(Marks:1)

Vu-Topper RM

There are two broad categories of data, which are:

- A. Weighted and Un-weighted

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B. Grouped and Un-grouped

C. Qualitative and Quantitative

Page 16

D. Primary and Secondary

Question No:186

(Marks:1)

Vu-Topper RM

In a linear regression, $Y=a+bX$, the variable "Y" will always:

A. A random variable

Page 117

B. A non-random variable

C. Qualitative variable

D. Quantitative variable

Question No:187

(Marks:1)

Vu-Topper RM

An event that contains more than one sample points is called:

A. Mutually exclusive event

B. Not mutually exclusive event

C. Hyper event

D. Compound event

Page 140

Question No:188

(Marks:1)

Vu-Topper RM

For a perfect symmetric curve distance from X_0 to Q_1 is
to the distance from Q_3 to X_m .

A. Less

B. Equal

Page 92

C. Greater

D. None of the above

Question No:189

(Marks:1)

Vu-Topper RM

In a linear regression, best fitted line is obtained through:

A. Method of moment

B. Method of likelihood

C. Method of least square

Page 122

D. Method of semi average

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Question No:190

(Marks:1)

Vu-Topper RM

The number of classes in a frequency distribution depends upon:

A. Sample

B. Population

Page 29

C. Range

D. Average

Question No:191

(Marks:1)

Vu-Topper RM

Variance is expressed in units as the units of data set.

A. Squared

Page 90

B. Cube

C. Single

D. Same

Question No:192

(Marks:1)

Vu-Topper RM

Sometimes mean deviation can also be calculated around:

A. Quartiles

B. Deciles

C. Median

Page 89

D. None of the above

Question No:193

(Marks:1)

Vu-Topper RM

The types of frequency distribution are:

A. 3

B. 4

Page 38

C. 5

D. 2

Question No:194

(Marks:1)

Vu-Topper RM

There are 30 people in a group. If all shake hands with one another, how many handshakes are possible?

A. 435

B. 370

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- C. 291
- D. 870

Question No:195

(Marks:1)

Vu-Topper RM

When a fair die is rolled, then sample space consists of:

- A. 2 outcomes**
- B. 16 outcomes
- C. 6 outcomes
- D. 36 outcomes

Question No:196

(Marks:1)

Vu-Topper RM

In a lottery, there are 10 prizes and 25 blanks. A lottery is drawn at random. What is the probability of getting a prize?

- A. 1/10
- B. 2/5
- C. 5/7
- D. 2/7**

Question No:197

(Marks:1)

Vu-Topper RM

A fair coin is tossed three times. What is the probability that at least one head appears?

- A. 1/8
- B. 7/8**
- C. 4/8
- D. 6/8

Question No:198

(Marks:1)

Vu-Topper RM

If we roll a die then probability of an even number will be

- A. 1
- B. 3/6**
- C. 4/6
- D. 2/6

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Question No:199

(Marks:1)

Vu-Topper RM

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

- A. Dependent variable**
- B. Independent variable
- C. Explanatory variable
- D. Regressor

Question No:200

(Marks:1)

Vu-Topper RM

If A and B are mutually exclusive events with $P(A) = 0.25$ and $P(B) = 0.50$, Then $P(A \text{ or } B) =$

- A. 0.25
- B. 0.75**
- C. 0.50
- D. 1

Question No:201

(Marks:1)

Vu-Topper RM

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

- A. 9 s.d(x)
- B. 3 s.d(x)**
- C. s.d(x)+5
- D. 3s.d(x)+5

Question No:202

(Marks:1)

Vu-Topper RM

The probability of drawing a red queen card from well-shuffled pack of 52 playing cards is

- A. 4/52
- B. 2/52**
- C. 13/52
- D. 26/52

Question No:203

(Marks:1)

Vu-Topper RM

If $P(B|A) = 0.25$ and $P(A \text{ and } B) = 0.20$, then $P(A)$ is

- A. 0.05

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B. 0.80

C. 0.95

D. 0.75

Question No:204

(Marks:1)

Vu-Topper RM

In how many ways, a team of 11 players can be chosen from a total of 16 players?

A. 4368

B. 2426

C. 5400

D. 2680

Question No:205

(Marks:1)

Vu-Topper RM

The standard deviation of c (constant) is equal to:

A. C

B. c square

C. 0

D. $2c$

Question No:206

(Marks:1)

Vu-Topper RM

The classical definition of probability is not applicable when the assumption of does not hold:

A. Exhaustive events

B. Mutually exclusive events

C. Equally likely events

D. Independent events

Question No:207

(Marks:1)

Vu-Topper RM

In scatter diagram, the variable plotted along Y-axis is:

A. Independent variable

B. Dependent variable

C. Continuous variable

D. Discrete variable

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Question No:208

(Marks:1)

Vu-Topper RM

Which of the following measures of dispersion are based on deviations from the mean?

- A. Variance
- B. Standard deviation
- C. Mean deviation
- D. All of these**

Question No:209

(Marks:1)

Vu-Topper RM

The standard deviation of -1, -1, -1, -1 will be

- A. 1
- B. -1
- C. 0**
- D. Does not exist

Question No:210

(Marks:1)

Vu-Topper RM

If two events A and B are not mutually exclusive then

- A. $P(A \text{ or } B) = P(A) + P(B) - P(A \text{ and } B)$**
- B. $P(A \text{ or } B) = P(A) + P(B)$
- C. $P(A \text{ or } B) = P(A) \times P(B)$
- D. $P(A \text{ or } B) = P(A) + P(B)$

Question No:211

(Marks:1)

Vu-Topper RM

If $P(A) = 0.45$, $P(B) = 0.35$, and $P(A \text{ and } B) = 0.25$, then $P(A | B)$ is:

- A. 1.4
- B. 1.8
- C. 0.714**
- D. 0.556

Question No:212

(Marks:1)

Vu-Topper RM

The free-hand frequency curve is actually a

- A. Scientific concept
- B. Theoretically concept**

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- C. Mathematical concept
- D. Probabilistic concept

Question No:213

(Marks:1)

Vu-Topper RM

Quantiles are:

- A. A range of scores which might contain the population value
- B. Points on a distribution which split it into equal sized portions**
- C. Summary values for the entire population
- D. The difference the top and bottom 5% of scores

Question No:214

(Marks:1)

Vu-Topper RM

The number of classes in a frequency distribution generally should be:

- A. Between five and twenty**
- B. Between ten and twenty
- C. More than five
- D. Less than five

Question No:215

(Marks:1)

Vu-Topper RM

The value of $10C_9$:

- A. 45
- B. 35
- C. 35
- D. 10**

Question No:216

(Marks:1)

Vu-Topper RM

Let $A = \{1, 2, 3, 4\}$ and $B = \{3, 4, 5, 6\}$ Then $A \cap B$:

- A. {3,4}**
- B. {1,4}
- C. {3,5}
- D. {3,6}

Question No:217

(Marks:1)

Vu-Topper RM

Consider a set $A = \{1, 2, 3\}$. What is the number of subsets of A?

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- A. 3
- B. 6
- C. 8** Google
- D. 9

Question No:218 (Marks:1) **Vu-Topper RM**

An event that contains only one sample points is called:

- A. Simple event**
- B. Normal event
- C. Compound event
- D. Mutually exclusive event

Question No:219 (Marks:1) **Vu-Topper RM**

Frequency distribution is considered as negatively skewed if all values of distribution moves to

- A. lower tail**
- B. median tail
- C. variance tail
- D. upper tail

Question No:220 (Marks:1) **Vu-Topper RM**

Which of the following is NOT a common measure of central tendency?

- A. Mode
- B. Range**
- C. Median
- D. Mean

Question No:221 (Marks:1) **Vu-Topper RM**

Adding all the squared deviations taken from mean and dividing by the number of observations, we get:

- A. Standard Deviation
- B. Variance** Google
- C. Mean Deviation

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D. None of the above

Question No:222

(Marks:1)

Vu-Topper RM

Standard deviation divided by mean is known as:

A. Co-efficient of standard deviation

B. Co-efficient of variation

C. None

D. Both Co-efficient of standard deviation and Co-efficient of variation

Question No:223

(Marks:1)

Vu-Topper RM

5C_5 equals to:

A. 5

B. 1

C. 10

D. 15

Question No:224

(Marks:1)

Vu-Topper RM

Which of the measure of dispersion is used to compare variation between two series?

A. C.V.

B. Q.D.

C. M.D.

D. S.D.

Question No:225

(Marks:1)

Vu-Topper RM

When a frequency distribution involves "open-end" classes, then which average is appropriate?

A. Mean

B. Mode

C. Median

D. None of these

Page 62

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Question No:226

(Marks:1)

Vu-Topper RM

According to Empirical rule, approximately how much values will fall within (Mean-3S.D, Mean+3S.D)?

A. 100% **Page 90**

B. 95%

C. 75%

D. 68%

Question No:227

(Marks:1)

Vu-Topper RM

What is probability of drawing two clubs from a well shuffled pack of 52 cards?

A. 13/51

B. 1/17

C. 1/26

D. 13/17

Question No:228

(Marks:1)

Vu-Topper RM

Which pair of measure cannot be calculated when one of numbers in the series is zero?

A. G.M. and A.M.

B. H.M. and A.M.

C. G.M. and H.M.

D. None of these

Question No:229

(Marks:1)

Vu-Topper RM

Which of the following techniques is used to predict the value of one variable on the basis of other variables?

A. Correlation analysis

B. Coefficient of correlation

C. Covariance

D. Regression analysis

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Question No:230

(Marks:1)

Vu-Topper RM

If $A = \{H, T\}$ then which of the following is power set of A ?

- A. $\{\{\}, \{H, T\}\}$
- B. $\{\{H\}, \{T\}, \{H, T\}\}$
- C. $\{\{H\}, \{T\}, \{H, T\}, \{T, H\}\}$
- D. $\{\{\}, \{H\}, \{T\}, \{H, T\}\}$**

Question No:231

(Marks:1)

Vu-Topper RM

The total number of observations, which are below a certain value are known as:

- A. class boundaries
- B. class marks
- C. cumulative frequency**
- D. variances

Question No:232

(Marks:1)

Vu-Topper RM

Which of the following, measures the dispersion around mean?

- A. Mean deviation
- B. Standard deviation**
- C. Mean deviation and Standard deviation
- D. None of these

Question No:233

(Marks:1)

Vu-Topper RM

Which of the following averages give information about central value in the distribution?

- A. Mean
- B. Median**
- C. Mode
- D. Harmonic mean

Question No:234

(Marks:1)

Vu-Topper RM

Which of the scale is best to use for measuring the salary of an employee?

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- A. nominal
- B. ordinal
- C. interval**
- D. ratio

Question No:235 (Marks:1)

Vu-Topper RM

Smaller standard error of estimate shows:

- A. Data points are very far to the line
- B. Data points are close to the line**
- C. There is no difference between line and points
- D. Difference is additive

Question No:236 (Marks:1)

Vu-Topper RM

A circle in which sectors represents various quantities is called:

- A. Histogram
- B. Frequency Polygon
- C. Pie Chart**
- D. Component Bar Chart

Question No:237 (Marks:1)

Vu-Topper RM

If a box contains six red, three blue and five pink ties then probability of blue ties will be equal to:

- A. 1/14
- B. 3/14**
- C. 5/14
- D. 6/14

Question No:238 (Marks:1)

Vu-Topper RM

When two dice are rolled. What is the probability that total is at least 12:

- A. $\frac{1}{36}$
- B. $\frac{2}{36}$**
- C. $\frac{12}{36}$
- D. $\frac{36}{36}$

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Question No:239

(Marks:1)

Vu-Topper RM

Correlation COEFFICIENT measures:

A. Dispersion

B. Skewness

C. Degree of linear relationship between two random variables

Page 128

D. Dependence of one variable to another variable

Question No:240

(Marks:1)

Vu-Topper RM

When two dice are rolled the number of possible sample points are:

A. 6

B. 12

C. 24

D. 36 Confirm $6*6 = 36$

Question No:241

(Marks:1)

Vu-Topper RM

The number of elements in the Power set P(S) of the set $S = [[\Phi] , 1, [2, 3]]$ is:

A. 3

B. 4

C. 8 ($2^n = 2^3 = 8$)

D. 6

Question No:242

(Marks:1)

Vu-Topper RM

In how many ways can a group of 5 men and 2 women be made out of a total of 7 men and 3 women?

A. 63

B. 54

C. 86

D. 156

Question No:243

(Marks:1)

Vu-Topper RM

If the median of two observations is 8, then mean of these two

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observations will be:

- A. 7
- B. 9
- C. 8**
- D. 6

Question No:244

(Marks:1)

Vu-Topper RM

A fair die is rolled. Probability of getting even face given that face is less than 5 is given by:

- A. $\frac{1}{2}$**
- B. 5
- C. 2
- D. 6

Question No:245

(Marks:1)

Vu-Topper RM

Consider a set $A = \{4, 6, 8, 10\}$. What is the number of subsets of A?

- A. 2
- B. 8
- C. 10
- D. 16 ($2^4 = 16$)**

Question No:246

(Marks:1)

Vu-Topper RM

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

- A. 1st Decile
- B. 7th Decile**
- C. 44th Percentile
- D. 14th Percentile

Question No:247

(Marks:1)

Vu-Topper RM

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

- A. 0.8

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B. 0.2

C. 0.6

$$P(A \cup B) = P(A) + P(B) = 0.2 + 0.4 = 0.6$$

D. 0.5

Question No:248

(Marks:1)

Vu-Topper RM

The conditional probability of the event A when event B has occurred is denoted by:

A. $P(A/B)$

B. $P(A + B)$

C. $P()$

D. $P(A - B)$

Question No:249

(Marks:1)

Vu-Topper RM

Symbolically, a conditional probability is:

A. $P(AB)$

B. $P(A/B)$

C. $P(A)$

D. $P(A \cup B)$

Question No:250

(Marks:1)

Vu-Topper RM

Find the mode from these test results: 90, 80, 77, 86, 90, 91, 77, 66, 69, 65, 43, 65, 75, 43, 90.?

A. 90

B. 80

C. 70

D. 60

Question No:251

(Marks:1)

Vu-Topper RM

The number of classes in a frequency distribution is obtained by dividing the range of variable by the:

A. Total frequency

B. Class interval

C. Mid-point

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D. Relative frequency

Question No:252

(Marks:1)

Vu-Topper RM

Mean deviation is a measure of dispersion in which deviations are taken around the:

A. Mean

B. First Quartile

C. Third Quartile

D. None of the above

Question No:253

(Marks:1)

Vu-Topper RM

A graph of plotted points which shows the relationship between two sets of data is known as:

A. Venn Diagram

B. Polygon Curve

C. Histogram diagram

D. Scatter diagram

Page 121

Question No:254

(Marks:1)

Vu-Topper RM

The deviation of a distribution from symmetry is called:

A. Kurtosis

B. Skewness

Page 101

C. Dispersion

D. Flatness

Question No:255

(Marks:1)

Vu-Topper RM

if a box contains two red and three green balls then probability of red balls will be equal to:

A. $2/3$

B. $3/4$

C. $2/5$

(red balls/ total balls = $2/5$)

D. $1/5$

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Question No:256 (Marks:1)

Vu-Topper RM

Co-efficient of standard deviation is:

- A. An absolute measure of Dispersion
- B. A relative measure of dispersion**
- C. Both
- D. None

Page 93

Question No:257 (Marks:1)

Vu-Topper RM

If the grading of diabetes is classified as mild, moderate and severe the scale of measurement used is:

- A. Interval
- B. Nominal
- C. Ordinal**
- D. Ratio

Question No:258 (Marks:1)

Vu-Topper RM

_____ determines the shape of the frequency distribution without drawing graph of frequency distribution.

- A. Probability theory
- B. Random number theory
- C. Scatter diagram
- D. Five number theory**

Page 99

Question No:259 (Marks:1)

Vu-Topper RM

_____ is the measure of average which can have more than one value.

- A. Harmonic Mean
- B. Geometric Mean
- C. Median
- D. Mode**

Question No:260 (Marks:1)

Vu-Topper RM

In case of positively skewed distribution:

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A. $Q1 + Q2 = 2 \text{ median} < 0$

B. $Q1 + Q2 = 2 \text{ median} > 0$

Page 111

C. $Q1 + Q2 = 2 \text{ median} = 0$

D. None of these

Question No:261

(Marks:1)

Vu-Topper RM

By using method of least square in a linear regression, sum of square of the vertical distances between the points and fitted line is always:

A. Zero

B. Minimum

Page 124

C. Maximum

D. All of these

Question No:262

(Marks:1)

Vu-Topper RM

The amount of hump of a distribution is called:

A. Kurtosis

Page 109

B. Symmetry

C. Dispersion

D. Skewness

Question No:263

(Marks:1)

Vu-Topper RM

When there is no correlation then:

A. $R=2$

B. $R=0$ **Google**

C. $R=1$

D. $R=-1$

Question No:264

(Marks:1)

Vu-Topper RM

In simple linear regression, which of the following statements indicates there is no linear relationship between the variables x and y?

A. none of the above

B. sum of square of errors is 0

C. Coefficient of determination is -1.0

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D. Coefficient of correlation is 0

Google

Question No:265

(Marks:1)

Vu-Topper RM

In a right skewed distribution,

A. $X_m - Q_3$ less than $Q_1 - X_0$

B. $X_m - Q_3$ grater than $Q_1 - X_0$

C. $X_m - Q_3$ less and equal to $Q_1 - X_0$

D. $X_m - Q_3$ greater and equal to $Q_1 - X_0$

Question No:266

(Marks:1)

Vu-Topper RM

In a Box and Whisker plot, Box is divided into:

A. One port

B. Two ports

C. Four ports

D. Three ports

Question No:267

(Marks:1)

Vu-Topper RM

Which of the rule is applied to the frequency distribution that is mound-shaped and symmetric?

A. Empirical rule

Google

B. Combination rule

C. Chebychev's rule

D. Combination rule

Question No:268

(Marks:1)

Vu-Topper RM

The variance of a sample of 81 observations is equal to 64; The standard deviation of these observations will be:

A. 8

Google

B. 256

C. 4096

D. 6561

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Question No:269

(Marks:1)

Vu-Topper RM

Given the N values in a series, the geometric mean is:

- A. The third root of the product of N values.
- B. The fourth root of the product of N values.
- C. The square root of the product of N values.
- D. The Nth root of the product of N positive values.**

Question No:270

(Marks:1)

Vu-Topper RM

In a linear regression, $Y=a+bX$, the variable "X" will always:

- A. A random variable
- B. Qualitative variable
- C. Quantitative variable**
- D. A non-random variable

Question No:271

(Marks:1)

Vu-Topper RM

The variable plotted on the horizontal or X-axis in a scatter diagram, is called

- A. Scatter variable
- B. Dependent variable
- C. Correlation variable
- D. independent variable. Google**

Question No:272

(Marks:1)

Vu-Topper RM

When the curve is flat-topped, it is called:

- A. Hetrokurtic
- B. Leptokurtic
- C. Mesokurtic
- D. Platykurt Google**

Question No:273

(Marks:1)

Vu-Topper RM

The mean of a distribution is 24, the mode is 25 and the standard deviation is 5, then the coefficient of skewness will be:

- A. Equal to zero

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B. Less than zero

C. Greater than zero

D. None of the above

Question No:274

(Marks:1)

Vu-Topper RM

Third moment about mean provides information about the_____ of the distribution.

A. Centre

B. Kurtosis

C. Dispersion

D. Symmetry

Question No:275

(Marks:1)

Vu-Topper RM

Empirical rule is considered when the data is

A. Skewed

B. Symmetrical

C. Positively skewed

D. Negatively skewed

Page 89

Question No:276

(Marks:1)

Vu-Topper RM

A five-number summary consists of:

A. X_m , Q1, Mode, Q3, and X_0

B. X_m , Q1, Mean, Q3, and X_0

C. X_0 , Q1, Median, Q2, and X_m

D. X_0 , Q1, Median, Q3, and X_m

Page 92

Question No:277

(Marks:1)

Vu-Topper RM

If a distribution has negative skewness, in what order (lowest to highest) will the averages be?

A. median, mode, mean

B. mean, mode, median

C. mode, median, mean

D. mean, median, mode

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Question No:278

(Marks:1)

Vu-Topper RM

Range i.e. (maximum value - minimum value) for a symmetrical distribution is approximately equal to

- A. σ
- B. 3σ
- C. 4σ
- D. 6σ**

Question No:279

(Marks:1)

Vu-Topper RM

If all the points in a scatter diagram lie on the least squares regression line, then the coefficient of correlation:

- A. 1
- B. 0
- C. -1
- D. -1to+1**

Question No:280

(Marks:1)

Vu-Topper RM

b^2 is used to measure the:

- A. None
- B. Both
- C. Skewness of the distribution

D. Kurtosis of the distribution

Page 114

Question No:281

(Marks:1)

Vu-Topper RM

For a particular data set the Pearson's coefficient of skewness is less than zero. What will be the shape of distribution?

- A. Symmetrical
- B. Positively Skewed
- C. Negatively Skewed**
- D. None of the above

Question No:282

(Marks:1)

Vu-Topper RM

Which one of the following is a meso-kurtic curve?

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- A. Negatively skewed
- B. Positively skewed
- C. J-shaped

D. Normal

Page 114

Question No:283

(Marks:1)

Vu-Topper RM

Which method is used for obtaining the relative frequencies?

- A. Dividing the total frequency by the frequency
- B. Dividing the frequency by the total frequency**
- C. Dividing the mid points by the frequency
- D. Dividing the mid points by the total frequency

Question No:284

(Marks:1)

Vu-Topper RM

To find the average speed of a journey which is the appropriate measure of central tendency.

- A. Mode
- B. Weighted Mean**
- C. Geometric Mean
- D. Harmonic mean

Question No:285

(Marks:1)

Vu-Topper RM

When a researcher want to compare intensity of symptoms when different doses are administered. In this case, "different doses" will be treated as:

- A. Qualitative variable
- B. Continuous variable
- C. Dependent variable
- D. Independent variable**

Question No:286

(Marks:1)

Vu-Topper RM

Historigram and histogram are:

- A. Always same
- B. Not same**

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- C. Off and on same
- D. Randomly same

Question No:287

(Marks:1)

Vu-Topper RM

In a group frequency distribution, corrected moments are calculated by the method of:

- A. Sheppard's correction
- B. Continuity correction
- C. Pearson's correction**
- D. Bowley's correction

Question No:288

(Marks:1)

Vu-Topper RM

r is a pure number that lies between:

- A. None
- B. 0 to ∞
- C. 0 to 1
- D. -1 to +1**

Google

Question No:289

(Marks:1)

Vu-Topper RM

If a fair coin is tossed 2 times then probability that two heads appear is equal to:

- A. 1/3
- B. 1/2
- C. 1/5
- D. 1/4**

Question No:290

(Marks:1)

Vu-Topper RM

If one card is selected at random from a deck of 52 playing cards, what is the probability that the card is a club or a face card or both?

- A. 22/52**
- B. 52/22
- C. 21/52

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D. 20/52

Question No:291

(Marks:1)

Vu-Topper RM

The probability of a jack card from a well shuffled pack of 52 playing cards will be:

A. 13/52

B. 4/52

C. 1/52

D. 1/26

Question No:292

(Marks:1)

Vu-Topper RM

If $A = \{10, 11\}$ then which of the following is power set of A?

A. $\{\{\}, \{10, 11\}\}$

B. $\{\{10\}, \{11\}, \{10, 11\}\}$

C. $\{\{\}, \{10\}, \{11\}, \{10, 11\}\}$

D. $\{\{10\}, \{11\}, \{10, 11\}, \{11, 10\}\}$

Question No:293

(Marks:1)

Vu-Topper RM

10! equals to:

A. 362800

B. 3628800

C. 362280

D. 3622880

Question No:294

(Marks:1)

Vu-Topper RM

In a multiplication theorem $P(A \text{ and } B)$ equals (when events are not independent):

A. $P(A)P(B)$

B. $P(A) + P(B)$

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

D. $P(A) + P(B) - P(A \cup B)$

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Question No:295

(Marks:1)

Vu-Topper RM

In a drawer there are 5 black socks and 3 green socks. Two socks are picked randomly one after the other without replacement. What is the possibility that both the socks are black?

A. 5/14

B. 5/8

C. 8/5

D. 3/16

Question No:296

(Marks:1)

Vu-Topper RM

The probability of an event always lies between:

A. 0 and ∞

B. 0 and 1

C. 1 and + 1

D. $-\infty$ and $+\infty$

Question No:297

(Marks:1)

Vu-Topper RM

A set that contains all possible outcomes of a system is known as:

A. Finite set

B. Infinite set

C. Universal set

D. None of these

Question No:298

(Marks:1)

Vu-Topper RM

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

A. 0

B. 1

C. 0.1

D. 1.5

Question No:299

(Marks:1)

Vu-Topper RM

When an event is as likely to occur as other, it is called:

A. Normal event

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- B. Equally likely event**
C. Mutually exclusive event
D. Not mutually exclusive event

Question No:300 (Marks:1) **Vu-Topper RM**
If a player well shuffles the pack of 52 playing cards, then the probability of a black card from 52 playing cards is:

- A. 1/2**
B. 1/13
C. 1/52
D. 13/52

Question No:301 (Marks:1) **Vu-Topper RM**
Find the number of subsets of the following set. {x | x is a day of the week}

- A. 7
B. 14
C. 49
D. 128

Question No:302 (Marks:1) **Vu-Topper RM**
Probability of an impossible event is always:

- A. Zero**
B. Less than one
C. Greater than one
D. Between one and zero

Question No:303 (Marks:1) **Vu-Topper RM**
If we roll a die then probability of getting a '2' will be

- A. 7/9
B. 1/6
C. 1/2
D. 5/12

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Question No:304

(Marks:1)

Vu-Topper RM

In which approach to probability the outcomes are equally likely to occur?

- A. Relative Frequency
- B. Classical Probability**
- C. Objective Probability
- D. Subjective Probability

Question No:305

(Marks:1)

Vu-Topper RM

Total number of words formed by 2 vowels and 3 consonants taken from 4 vowels and 5 consonants is equal to

- A. 60
- B. 120
- C. 520
- D. 720**

Question No:306

(Marks:1)

Vu-Topper RM

If we have three events A,B and C, then for exhaustive events $P(A \cup B \cup C)$ will be equal to:

- A. P(S)**
- B. P(B)
- C. P(A)
- D. $P(A) * P(B) * P(C)$

Question No:307

(Marks:1)

Vu-Topper RM

A club consists of four members. How many ways are there of selecting three officers: president, secretary and treasurer?

- A. 3
- B. 6
- C. 20
- D. 24**

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Question No:308

(Marks:1)

Vu-Topper RM

From a pack of 52 cards, two cards are drawn together at random. What is the probability of both the cards being kings?

- A. 1/122
- B. 1/15
- C. 25/57
- D. 1/221**

Question No:309

(Marks:1)

Vu-Topper RM

A letter is chosen at random from the word STATISTICS. The probability of getting a vowel is:

- A. 3/10**
- B. 4/10
- C. 5/10
- D. 6/10

Question No:310

(Marks:1)

Vu-Topper RM

$P(\text{event}) = \frac{\text{No. of favorable outcomes}}{\text{total no. of outcomes}}$ is a definition of:

- A. Normal event**
- B. Binomial event
- C. Objective Approach
- D. Subjective Approach

Question No:311

(Marks:1)

Vu-Topper RM

When a coin is tossed, then sample space consists of:

- A. 2 outcomes**
- B. 4 outcomes
- C. 6 outcomes
- D. 8 outcomes

Question No:312

(Marks:1)

Vu-Topper RM

If a player selected a card from a well shuffles the pack of 52 playing

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cards then the probability of number 10 card is equals to:

- A. $1/52$
- B. $10/52$
- C. $4/52$**
- D. $26/52$

Question No:313

(Marks:1)

Vu-Topper RM

If A, B and C are three events and only one event of them must occur then $P(A) + P(B) + P(C)$:

- A. 0
- B. 1**
- C. $P(S)=1$
- D. sample space

Question No:314

(Marks:1)

Vu-Topper RM

If two fair dice are thrown, the probability of getting a double six is:

- A. $1/6$
- B. $1/12$
- C. $1/36$**
- D. $2/36$

Question No:315

(Marks:1)

Vu-Topper RM

In a Venn diagram, the overlap between two circles represents:

- A. The union of two sets
- B. The intersection of two sets**
- C. The elements that are in either of two sets
- D. The difference between the number of elements in two sets

Question No:316

(Marks:1)

Vu-Topper RM

From a group of 7 men and 6 women, five persons are to be selected to form a committee so that at least 3 men are there on the committee. In how many ways can it be done?

- A. 645

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B. 564

C. 756

D. 865

Question No:317

(Marks:1)

Vu-Topper RM

Second moment about mean will be equal to:

A. 0

B. Mean

C. Median

D. Variance **Google**

Question No:318

(Marks:1)

Vu-Topper RM

For a positively skewed distribution mid range is To/than the mid quartile range

A. Less

B. Equal

C. Greater **Google**

D. None of the above

Question No:319

(Marks:1)

Vu-Topper RM

Sum of the deviations taken from the mean is equal to:

A. One

B. Zero **Google**

C. Postive number

D. Negative Number

Question No:320

(Marks:1)

Vu-Topper RM

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

A. Class boundaries **Page 32**

B. Class limits

C. Class frequency

D. Class marks

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Question No:321

(Marks:1)

Vu-Topper RM

The middle value of an ordered array of numbers is the

- A. Mean
- B. Median**
- C. Mode
- D. Midpoint

Page 59

Question No:322

(Marks:1)

Vu-Topper RM

If Mean =25 & S.D is 5 then C.V is:

- A. 100%
- B. 20%**
- C. 10%
- D. 25%

Page 88

Question No:323

(Marks:1)

Vu-Topper RM

You connect the mid-points of rectangles in a histogram by a series of lines that also touches the x-axis from both ends, you will get:

- A. Ogive
- B. Frequency polygon
- C. Frequency curve**
- D. Histogram

Page 38

Question No:324

(Marks:1)

Vu-Topper RM

The conditional probability $P(A/B)$ is:

- A. $P(A \cap B)/P(B)$**
- B. $P(A \cap B)/P(A)$
- C. $P(A \cup B)/P(B)$
- D. $P(A \cup B)/P(A)$

Page 154

Question No:325

(Marks:1)

Vu-Topper RM

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

- A. Dependent variable
- B. Independent variable**

Page 116

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- C. Explained variable
- D. Regress and

Question No:326

(Marks:1)

Vu-Topper RM

The extremely positively skewed curve is also known as:

- A. Frequency curve
- B. U-shaped curve
- C. J-shaped curve

D. Reverse J-shaped curve

Page 35

Question No:327

(Marks:1)

Vu-Topper RM

Direct personal investigation is-----when the area to be covered is vast.

- A. Costly
- B. Time-consuming

C. Both

Page 6

Question No:328

(Marks:1)

Vu-Topper RM

According to this empirical rule, approximately how much values will fall within (Mean – 3S.D, Mean + 3S.D)?

A. 100%

Page 90

- B. 95%
- C. 75%
- D. 68%

Question No:329

(Marks:1)

Vu-Topper RM

When all the values falling in a class are equal to the mid point of the class interval is called

- A. Random error
- B. Unbiased Error
- C. Biased Error

D. Grouping Error

Page 56

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Question No:330

(Marks:1)

Vu-Topper RM

For a Leptokurtic distribution, b_2 (moment ratio) will be:

A. Greater than 3

Page 114

B. Less than 3

C. Equal to 3

D. Equal to zero

Question No:331

(Marks:1)

Vu-Topper RM

Which scale will you use to measure the temperature?

A. Nominal scale

B. Interval scale

Page 4

C. Ratio scale

D. Ordinal scale

Question No:332

(Marks:1)

Vu-Topper RM

Which of the following will be used to draw an OGIVE?

A. A cumulative frequency distribution

Page 43

B. A joint frequency distribution

C. A frequency distribution

D. A relative frequency distribution

Question No:333

(Marks:1)

Vu-Topper RM

If the Coefficient of variance = 50% and standard deviation = 2, what will be the value of mean(μ)?

A. 4

Page 93

B. 5

C. 8

D. 10

Question No:334

(Marks:1)

Vu-Topper RM

In uni-modal distribution, if mode is less than mean

A. Positively Skewed

Page 98

B. Negatively Skewed

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- C. Symmetrical
- D. Symmetrical

Question No:335

(Marks:1)

Vu-Topper RM

Dispersion means the that exists in a data set.

A. Similiarty

B. Variability

Page 51

C. Strength

D. Weakness

Question No:336

(Marks:1)

Vu-Topper RM

The _____ is the value you calculate when you want the arithmetic average:

A. Mode

B. Median

C. Mean

Page 58

D. All above

Question No:337

(Marks:1)

Vu-Topper RM

When coin is tossed, the sample space consist of:

A. 2 outcomes

Page 145

B. 4 outcomes

C. 6 outcomes

D. 8 outcomes

Question No:338

(Marks:1)

Vu-Topper RM

A teacher asked 10 of her students how many books they had read in the last 12 months. Their answers were as follow: 12,13,19,6,7,15,25,21,12

The stem part is:

A. 12,6,7,10

B. 0,1,2

Page 47

C. 1,2,3,7,6

D. 25,21,12

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Question No:339

(Marks:1)

Vu-Topper RM

In case of frequency distribution, the second quartile is given by the formula:

A. $1 + 2h/f(n/2-c)$

B. $1 + f/h(n/4-c)$

C. $1 + f/h(2n/4-c)$

D. $1 + h/f(2n/4-c)$

Page 69

Question No:340

(Marks:1)

Vu-Topper RM

Quartile Deviation is also defined as:

A. Interquartile Range

B. Semi range

C. Semi interquartile range

Page 85

D. range

Question No:341

(Marks:1)

Vu-Topper RM

The data which has undergone any statistical treatment is called:

A. Primary data

B. Secondary Data

Page 11

C. Qualitative data

D. Quantitative Data

Question No:342

(Marks:1)

Vu-Topper RM

The simultaneous occurrence of two events is called:

A. Joint probability

B. Subjective probability

C. Prior probability

D. Conditional probability

Question No:343

(Marks:1)

Vu-Topper RM

A frequency curve touches x-axis:

A. No

B. Yes

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- C. Some times
- D. None of these

Question No:344

(Marks:1)

Vu-Topper RM

A tabular management for classifying data into different group is called:

- A. Class mark
- B. Arithmetic mean
- C. Frequency distribution**
- D. Standard deviation

Question No:345

(Marks:1)

Vu-Topper RM

When the frequency distribution or curve departs from symmetry, is called

- A. Skewed**
- B. Positively skewed
- C. Negatively skewed
- D. None of these

Question No:346

(Marks:1)

Vu-Topper RM

Fourth moment about mean provides information about the _____ of the distribution.

- A. Centre
- B. Dispersion
- C. Symmetry
- D. Kurtosis**

Page 114

Question No:347

(Marks:1)

Vu-Topper RM

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

- A. Continuous data**
- B. Qualitative data
- C. Categorical data
- D. Discrete data

Page 9

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Question No:348

(Marks:1)

Vu-Topper RM

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:

- A. Binomial distribution
- B. Hypergeometric distribution**
- C. Poisson distribution
- D. Exponential distribution

Page 219

Question No:349

(Marks:1)

Vu-Topper RM

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

- A. Probability density function
- B. Probability distribution function**
- C. Commutative distribution function
- D. Discrete function

Page 172

Question No:350

(Marks:1)

Vu-Topper RM

A discrete probability function $f(x)$ is always:

- A. Zero
- B. One**
- C. Negative
- D. non-negative

Page 172

Question No:351

(Marks:1)

Vu-Topper RM

The most commonly used device of presenting business and economic data is:

- A. Pie diagrams
- B. Pictograms
- C. Bar diagrams**
- D. Line diagrams

Question No:352

(Marks:1)

Vu-Topper RM

If any value in the data is zero, then it is not possible to have?

- A. Harmonic Mean**

Page 77

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- B. Arithmetic Mean
- C. Median
- D. Mode

Question No:353

(Marks:1)

Vu-Topper RM

A sector diagram is also called?

- A. Bar diagram
- B. Histogram
- C. Historigram
- D. Pie diagarm**

Page 23

Question No:354

(Marks:1)

Vu-Topper RM

When the peak value of the curve becomes relatively high, it is called:

- A. Mesokurtic
- B. Leptokurtic**
- C. Platykurtic
- D. hetrokurtic

Page 114

Question No:355

(Marks:1)

Vu-Topper RM

If the outcome of one event affects the outcome of another, then the events are said to be:

- A. Dependent Events**
- B. Mutually Exclusive
- C. Independent Events
- D. Not Mutually Exclusive Events

Page 162

Question No:356

(Marks:1)

Vu-Topper RM

Quartile Deviation is based on:

- A. All values
- B. Not all values**
- C. Extreme Values
- D. Smallest values

Page 84

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Question No:357

(Marks:1)

Vu-Topper RM

In a Box and Whisker plot, a line which divides the box into two equal parts is referred to as:

A. Mean

B. Median

Page 107

C. Mode

D. Range

Question No:358

(Marks:1)

Vu-Topper RM

For a symmetrical distribution, b_1 is always:

A. Less than 1

B. Greater than 1

C. Equal to 0

Page 119

D. Less or equal to 1

Question No:359

(Marks:1)

Vu-Topper RM

When we smooth a frequency polygon, it becomes:

A. OGIVE

B. Pie chart

C. Bar chart

D. Frequency Curve

Page 37

Question No:360

(Marks:1)

Vu-Topper RM

Geometric Mean gives the equal weightage to _____ values

A. Larger Values

B. Smaller Values

C. All the observations

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D. Both smaller and larger values

Question No:361

(Marks:1)

Vu-Topper RM

Standard deviation is calculated from the Harmonic Mean.

A. Never

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B. Always

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- C. Sometimes
- D. None of these

Question No:362

(Marks:1)

Vu-Topper RM

Quartile Deviation measures the spread of data around:

- A. Mode
- B. Median**
- C. Arithmetic Mean
- D. Geometric Mean

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Question No:363

(Marks:1)

Vu-Topper RM

For the given data 2, 3, 7, 0, -8 G. M will be:

- A. Negative
- B. Positive
- C. Zero**
- D. Undefined

Page 75

Question No:364

(Marks:1)

Vu-Topper RM

The reciprocal of the arithmetic mean of the reciprocals of the values is defined as:

- A. weighted mean
- B. weighted mean
- C. harmonic mean**
- D. geometric mean

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