

VIRTUAL UNIVERSITY OF PAKISTAN

A Good Education is a Foundation For a Better Future
CORRECT ANSWER SOLVED BY HADI
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TEAM HADI(VU LAHORE)

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Best of luck!



Question No : 1 of 26

Marks: 1 (Budgeted Time 1 Min)

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

Answer (Please select your correct option)

☐ 0.8

☐ 0.2

☐ 0.6

☐ 0.5

☒ 0.6

☐ 0.5



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Question No : 2 of 26

Marks: 1 (Budgeted Time 1 Min)

When two coins are tossed the probability of at most one head is:

Answer (Please select your correct option)

☐ 1/4

☐ 2/4

☒ 3/4

☐ 4/4



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Question No : 3 of 26

Marks: 1 (Budgeted Time 1 Min)

A value which has half of the observations above it and half of the observations below it, is known as.....

Answer (Please select your correct option)

☐ Rang

☒ Median

☐ Mean

☐ Mode



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Question No : 4 of 26

Marks: 1 (Budgeted Time 1 Min)

In a set of 20 values all the values are 10, what will be median?

Answer (Please select your correct option)

☐ 2

☐ 5

☒ 10

☐ 20



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Question No : 5 of 26

Marks: 1 (Budgeted Time 1 Min)

Which one of the following measure is not based on all the observations?

Answer (Please select your correct option)

☐ Arithmetic Mean

☐ Geometric Mean

☐ Harmonic Mean

☒ Mode



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Question No : 6 of 26

Marks: 1 (Budgeted Time 1 Min)

The collection of all the elements under study is called:

Answer (Please select your correct option)

☐ Population

☐ Sample

☐ Data

☐ Registration

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Question No : 7 of 26

Marks: 1 (Budgeted Time 1 Min)

A five-number summary consists of :

Answer (Please select your correct option)

☐ X_0 , Q_1 , Median, Q_3 , and X_m



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☐ X_m , Q_1 , Mean, Q_3 , and X_0

☐ X_m , Q_1 , Mode, Q_3 , and X_0

☐ X_0 , Q_1 , Median, Q_2 , and X_m

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Question No : 8 of 26

Marks: 1 (Budgeted Time 1 Min)

For what condition of k , at least $1 - 1/k^2$ of the data-values fall within k standard deviations of the mean:

Answer (Please select your correct option)

☐ Greater than 1

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☐ Less than 1

☐ Greater or equal to 1

☐ Less or equal to 1

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Question No : 9 of 26

Marks: 1 (Budgeted Time 1 Min)

Which of the following can never be taken as the probability of an event?

Answer (Please select your correct option)

☐ 1

☐ 0

☐ 0.5

☐ -0.5



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Question No : 10 of 26

Marks: 1 (Budgeted Time 1 Min)

If E is an impossible event, then $P(E)$ is:

Answer (Please select your correct option)

☐ 1

☐ 0.15

☐ 0

☐ 0.5

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Question No : 11 of 26

Marks: 1 (Budgeted Time 1 Min)

The average which is defined as the reciprocal of the arithmetic mean of the reciprocals of the values is called

Answer (Please select your correct option)

☐ Geometric Mean

☒ Harmonic Mean

☐ Mode

☐ Median



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Question No : 12 of 26

Marks: 1 (Budgeted Time 1 Min)

An automobile is running, during the first 60 Km, at the rate of 10 Km/hr. During the second 60 Km at the rate of 30Km/hr, while during the third 60 Km its speed was 40 Km/hr. What method is more appropriate to calculate the average speed?

Answer (Please select your correct option)

☐ Median

☐ Arithmetic mean

☒ Harmonic mean

☐ Geometric mean

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Question No : 13 of 26

Marks: 1 (Budgeted Time 1 Min)

What is the standard deviation of the following values?
7, 7, 7, 7, 7, 7, 7

Answer (Please select your correct option)

☐ 7

☐ 1

☐ 49

☒ 0



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Question No : 14 of 26

Marks: 1 (Budgeted Time 1 Min)

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

Answer (Please select your correct option)

☐ Negatively skewed

☐ Positively skewed

☐ J-shaped

☒ Normal



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Question No : 15 of 26

Marks: 1 (Budgeted Time 1 Min)

Men tend to marry women who are slightly younger than themselves. Suppose that every man married a woman who was exactly 5 years younger than themselves. Which of the following is correct?

Answer (Please select your correct option)

☐ The correlation coefficient is -5

☐ The correlation coefficient is 5

☐ The correlation coefficient is 1

☐ The correlation coefficient is 0

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Question No : 16 of 26

Marks: 1 (Budgeted Time 1 Min)

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

☐ $P(A) P(B)$

☐ $P(A) + P(B)$

☒ $P(A) \times P(B|A)$

☐ $P(B|A) \times P(B)$



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Question No : 17 of 26

Marks: 1 (Budgeted Time 1 Min)

Which one of the following is the class frequency?

Answer (Please select your correct option)

☒ The number of observations in each class

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☐ The difference between consecutive lower class limits

☐ Always contains at least 5 observations

☐ Usually a multiple of the lower limit of the first class

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Question No : 18 of 26

Marks: 1 (Budgeted Time 1 Min)

Which of the following comes first to make frequency distribution.

Answer (Please select your correct option)

☐ Number of Groups

☐ Class interval

☒ Range

☐ Tally marks



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Question No : 19 of 26

Marks: 1 (Budgeted Time 1 Min)

Data obtained from the Ministry of food, is an example of

Answer (Please select your correct option)

☐ Primary data

☒ Secondary data

☐ Qualitative data

☐ None of these



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Question No : 20 of 26

Marks: 1 (Budgeted Time 1 Min)

Total angle of a Pie Chart is:

Answer (Please select your correct option)

☐ 90°

☐ 180°

☐ 270°

☐ 360°

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Question No : 21 of 26

Marks: 2 (Budgeted Time 4 Min)

Which two suits of playing cards are made of black color?

Answer ([Please click here to Add Answer](#))



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Question No : 22 of 26

Marks: 2 (Budgeted Time 4 Min)

Why standard deviation is better than mean absolute deviation?

Answer ([Please click here to Add Answer](#))



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Question No : 23 of 26

Marks: 3 (Budgeted Time 6 Min)

Write down the two normal equations of the regression line of Y on X.

Answer ([Please click here to Add Answer](#))



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Question No : 24 of 26

Marks: 3 (Budgeted Time 6 Min)

The numbers of airplane accidents in a year are: 1, 2, 3, 4 with corresponding probabilities $\frac{1}{6}$, $\frac{2}{6}$, $\frac{2}{6}$ and $\frac{1}{6}$. What are the expected number of annual accidents?

Answer ([Please click here to Add Answer](#))



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Question No : 25 of 26

Marks: 5 (Budgeted Time 10 Min)

The numbers of airplane accidents in a year are 1, 2, 3, 4 with corresponding probabilities $\frac{1}{6}$, $\frac{2}{6}$, $\frac{2}{6}$ and $\frac{1}{6}$. What is the variance of annual accidents?

Answer ([Please click here to Add Answer](#))



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Question No : 26 of 26

Marks: 5 (Budgeted Time 10 Min)

Fit the regression line Y on X from the following data.

$$\Sigma X = 15, \Sigma Y = 10, \Sigma XY = 37, \Sigma X^2 = 55, \bar{Y} = 2, \bar{X} = 3, n = 5$$

Answer ([Please click here to Add Answer](#))



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