VIRTUAL UNIVERSITY OF PAKISTAN

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TEAM HADI(VU LAHORE)

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Best of luck!

PAST PAPER

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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(AUB) is:

Answer (Please select your correct option)

- 0.8
- 0.2
- 0.6 ⇦ CORRECT
- 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 ⇦ correct
- 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 ⇦ correct
- 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

correct

- 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 ⇦ CORRECT
- 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 correct
- 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 correct
- 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



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- 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
- Arithematic mean
- Harmonic mean
- Geometric mean

correct

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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∩B) equals:

Answer (Please select your correct option)

- P (A) P (B)
- P (A) + P (B)
- P (A) × P (B|A) ⇦ CORRECT
- P(B|A)×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

correct

- 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° correct

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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 1/6, 2/6, 2/6 and 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 1/6, 2/6, 2/6 and 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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