# VIRTUAL UNIVERSITY OF PAKISTAN

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TEAM HADI(VU LAHORE)

## MID TERM PAST PAPER

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Best of luck!

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Question No : 1 of 26 Marks: 1 (Budgeted Time 1 Min)

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

Answer ( Please select your correct option )

- 0
- $\frac{3}{15}$ correct
- $\frac{1}{12}$
- $\frac{1}{2}$

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Question No : 2 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 : 3 of 26 Marks: 1 (Budgeted Time 1 Min)

Which one is the formula of range:

Answer ( Please select your correct option )

- $x_m - x_0$ CORRECT
- $x_0 - x_m$
- $\frac{x_0 - x_m}{2}$
- $\frac{x_0 + x_m}{2}$

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Question No : 4 of 26 Marks: 1 (Budgeted Time 1 Min)

If X and Y are independent variables then Var (X-Y) = _____

-

Answer ( Please select your correct option )

- Var(X) - Var(Y) ⇦ CORRECT

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- Var(X) + Var(Y)
- Var(X+Y)
- Var(X) ×Var(Y)

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Question No : 5 of 26 Marks: 1 (Budgeted Time 1 Min)

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

Answer ( Please select your correct option )

- 1/52
- 13/52
- 4/52
- 26/52



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Question No : 6 of 26 Marks: 1 (Budgeted Time 1 Min)

Pearson's coefficient of skewness is not possible if standard deviation is:

Answer ( Please select your correct option )

- 1
- 1.5
- 0
- 3

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Question No : 7 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 : 8 of 26 Marks: 1 (Budgeted Time 1 Min)

What is the difference between permutation and combination?

Answer ( Please select your correct option )

- In permutation order is important and in combination order is not important
- In permutation order is not important and in combination order is important
- Only combination is based on the classical definition of probability
- Only permutation is based on the classical definition of probability

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Question No : 9 of 26 Marks: 1 (Budgeted Time 1 Min)

If data is categorized about any characteristic, then which measurement scale should be used?

Answer ( Please select your correct option )

- Ordinal
- Interval
- Nominal
- Ratio

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Question No : 10 of 26 Marks: 1 (Budgeted Time 1 Min)

Which of the following scale has true zero point?

agr not true zero ho
to then interval
hoga

Answer ( Please select your correct option )

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



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Question No : 11 of 26 Marks: 1 (Budgeted Time 1 Min)

In a simple bar chart:

Answer ( Please select your correct option )

- Width of bar is meaningful
- Height of bar is meaningful
- Height of bar is not meaningful
- Height and width both are meaningful

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Question No : 12 of 26 Marks: 1 (Budgeted Time 1 Min)

What is the name of following curve?



Answer ( Please select your correct option )

- Positively skewed curve

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- Symmetrical curve
- Normal curve
- Negatively skewed curve

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Question No : 13 of 26 Marks: 1 (Budgeted Time 1 Min)

If A = {1, 2, 3, 4, 5, 10} and B = {1, 3, 5} then B⊂A means:

Answer ( Please select your correct option )

- A is less than B
- A is contained in B
- B is contained in A.
- B is less than A

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Question No : 14 of 26 Marks: 1 (Budgeted Time 1 Min)

The graph of cumulative frequency distribution is called:

Answer ( Please select your correct option )

- Frequency polygon
- Ogive
- Frequency curve
- Historigram

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Question No : 15 of 26 Marks: 1 (Budgeted Time 1 Min)

Given the series 1,2,1,1,2,2,2,2,3,4,5,3,2,3,1,4,2,3. Which one of the following is mode of the given seires:

Answer ( Please select your correct option )

- 4
- 3
  3
- 2
  3
  2
- 1
  3
  2*

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Question No : 16 of 26 Marks: 1 (Budgeted Time 1 Min)

Which one of the following is equal to the 2nd quartile:

Answer ( Please select your correct option )

- $P_{33}$
- $D_3$
- Median
- Mode

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Question No : 17 of 26 Marks: 1 (Budgeted Time 1 Min)

The variance of a sample of 81 observations equal to 64. The standard deviation of the sample is equal to:

Answer ( Please select your correct option )

- 256
- 4096
- 8
- 6,561

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Question No : 18 of 26 Marks: 1 (Budgeted Time 1 Min)

Under which condition standard deviation could assume a negative value:

Answer ( Please select your correct option )

- When more than half of the data values are negative
- If all the data values are same
- The standard deviation cannot be negative
- When all the data values are negative

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Question No : 19 of 26 Marks: 1 (Budgeted Time 1 Min)

In a set of 20 values all the values are 2, what will be the Geometric Mean?

Answer ( Please select yo

- 2 ⇦ CORRECT
- 5
- 10
- 20

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Question No : 20 of 26 Marks: 1 (Budgeted Time 1 Min)

In a set of 10 values all the values are 5, what will be the $D_5$?

Answer ( Please select your correct option )

- 2
- 5
- 2
  5
  10
- 20

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Question No : 21 of 26 Marks: 2 (Budgeted Time 4 Min)

Why we use coefficient of variation?

Answer ( Please click here to Add Answer )

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Question No : 22 of 26 Marks: 2 (Budgeted Time 4 Min)

In what situation we prefer to use conditional probability?

Answer ( Please click here to Add Answer )

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Question No : 23 of 26 Marks: 3 (Budgeted Time 6 Min)

How the moment ratios $b_1$ and $b_2$ are helpful in determining the shape of a distribution?

Answer ( Please click here to Add Answer )

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Question No : 24 of 26 Marks: 3 (Budgeted Time 6 Min)

For a data set, we have given the probability

$P(A \geq 2) = 0.33$

$P(B < 6) = 0.69$

Find

$i. P(A < 2)$

Answer ( Please click here to Add Answer )

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Question No : 25 of 26 Marks: 5 (Budgeted Time 10 Min)

Three horses A, B and C are in a race; A is twice as likely to win as B and B is twice as likely to win as C. Assume that events A, B and C are mutually exclusive. What is the probability that A or B wins?

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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Question No : 24 of 26 Marks: 3 (Budgeted Time 6 Min)

$P(A \geq 2) = 0.33$

$P(B < 6) = 0.69$

Find

*i.* $P(A < 2)$

*ii.* $P(B \geq 6)$.

Answer ( Please click here to Add Answer )

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