

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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WARNING: Team HADI is not responsible for any mistake or wrong answer. All students reading and using this document may check and confirm the answers at their own.



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Best of luck!



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 $P(A \cup B)$ is:

Answer (Please select your correct option)

☐ 0.8

☐ 0.2

☒ 0.6

☐ 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)

☐ $x_m - x_0$

☐ $x_0 - x_m$

☐ $\frac{x_0 - x_m}{2}$

☐ $\frac{x_0 + x_m}{2}$



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Question No : 4 of 26

Marks: 1 (Budgeted Time 1 Min)

If X and Y are independent variables then $\text{Var}(X-Y) =$ _____

-

Answer (Please select your correct option)

☒ $\text{Var}(X) - \text{Var}(Y)$



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☐ $\text{Var}(X) + \text{Var}(Y)$

☐ $\text{Var}(X+Y)$

☐ $\text{Var}(X) \times \text{Var}(Y)$

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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

☐ 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 $B \subset A$ 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

☐ Histogram



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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 series:

Answer (Please select your correct option)

☐ 4

☐ 3

☐ 2

☐ 1

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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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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.



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☐ 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 your answer)

2

☐

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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