

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)

MID TERM PAST PAPER

We Deal All Kind of VU Project
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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:

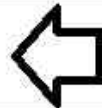
Answer (Please select your correct option)

☐

0

☐

$\frac{3}{15}$



☐

$\frac{1}{12}$

☐

$\frac{1}{2}$

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Question No : 2 of 26

Marks: 1 (Budgeted Time 1 Min)

If the probability of one event does not affected by the occurrence of another event then both events are:

Answer (Please select your correct option)

☐ Dependent

☐ Not Mutually Exclusive

☐ Mutually Exclusive

☐ Independent



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Question No : 3 of 26

Marks: 1 (Budgeted Time 1 Min)

A die is rolled. What is the probability of getting a number that is an even number and greater than 2.

Answer (Please select your correct option)

☐ $1/2$

☐ $1/3$

☒ $2/3$

☐ $5/6$



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Question No : 4 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 : 5 of 26

Marks: 1 (Budgeted Time 1 Min)

The mode value from raw data can be obtained by the help of

Answer (Please select your correct option)

☐ Dot plot

☐ Stem and leaf plot

☐ Bar chart

☐ None of these

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Question No : 6 of 26

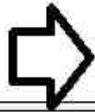
Marks: 1 (Budgeted Time 1 Min)

A student solved 25 questions from first 50 questions of a book. The probability that he will solve the remaining all questions is:

Answer (Please select your correct option)

☐ 0.25

☐ 0.5



☐ 1

☐ 0

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Question No : 7 of 26

Marks: 1 (Budgeted Time 1 Min)

The difference between the largest and the smallest data values is called the

Answer (Please select your correct option)

☐ Variance

☐ Interquartile range

☒ Range

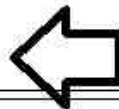
☐ Coefficient of variation

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Question No : 8 of 26

Marks: 1 (Budgeted Time 1 Min)

Which one is the formula of mid- quartile range:

Answer (Please select your correct option)

☐ $Q_3 - Q_1$

☐ $\frac{Q_3 - Q_1}{2}$

☐ $\frac{Q_1 - Q_3}{2}$

☐ $\frac{Q_1 + Q_3}{2}$



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Question No : 9 of 26

Marks: 1 (Budgeted Time 1 Min)

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

Answer (Please select your correct option)

☐ Negative

☐ Positive

☐ Zero

☐ Undefined



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Question No : 10 of 26

Marks: 1 (Budgeted Time 1 Min)

Mean deviation is least when it is calculated from _____.

Answer (Please select your correct option)

☐ Mean

☐ Mode

☐ Median

☐ Geometric mean

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Question No : 11 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 : 12 of 26

Marks: 1 (Budgeted Time 1 Min)

Rang measures the dispersion around the _____.

Answer (Please select your correct option)

☐ Extreme values



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☐ Minimum value

☐ Maximum value

☐ Mid-range value

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Question No : 13 of 26

Marks: 1 (Budgeted Time 1 Min)

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

Answer (Please select your correct option)

- ☐ Scatter variable
- ☐ Independent variable
- ☐ Dependent variable
- ☐ Correlation variable



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Question No : 14 of 26

Marks: 1 (Budgeted Time 1 Min)

In a scatter diagram we plot:

Answer (Please select your correct option)

☐ X and Y

☐ X and $\hat{Y}$

☐ Y and $\hat{Y}$

☐ $\hat{Y}$ and X

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Question No : 15 of 26

Marks: 1 (Budgeted Time 1 Min)

If $P(A \cap B) = P(A|B) \times P(B)$ then A and B will be:

Answer (Please select your correct option)

☐ Independent

☐ Mutually Exclusive

☐ Dependent

☐ Equally Likely



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Question No : 16 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
- ☐ 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 : 17 of 26

Marks: 1 (Budgeted Time 1 Min)

How to convert a frequency distribution to a relative frequency distribution?

Answer (Please select your correct option)

☐ Find the difference between consecutive lower class limits

☐ Find the difference between consecutive lower limits

☐ Count the number of observations in the class

☐ Divide the class frequency by the total number of observations



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Question No : 18 of 26

Marks: 1 (Budgeted Time 1 Min)

In statistics, we deal with

Answer (Please select your correct option)

- ☐ Individuals
- ☐ Isolated items
- ☐ Aggregates of facts
- ☐ Qualitative data



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Question No : 19 of 26

Marks: 1 (Budgeted Time 1 Min)

Pie chart consists of:

Answer (Please select your correct option)

☐ A rectangular

☐ A triangle

☐ A square

☒ A circle



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Question No : 20 of 26

Marks: 1 (Budgeted Time 1 Min)

When $Q_1 = 2$ and $Q_3 = 4$, what is the value of Median, if the distribution is symmetrical.

Answer (Please select your correct option)

☐ 1

☐ 2

☒ 3

☐ 4



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Question No : 21 of 26

Marks: 2 (Budgeted Time 4 Min)

Define complement of an event.

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



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Question No : 22 of 26

Marks: 2 (Budgeted Time 4 Min)

State the addition law of probability for two not mutually exclusive events A and B.

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



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Question No : 23 of 26

Marks: 3 (Budgeted Time 6 Min)

Find the probability of drawing a white ball from a bag containing 4 red, 8 black and 3 white balls.

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



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Question No : 24 of 26

Marks: 3 (Budgeted Time 6 Min)

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

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



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Question No : 25 of 26

Marks: 5 (Budgeted Time 10 Min)

Let $S = \{1, 2, 3, 4, 5, \dots, 9\}$

Where,

$A = \{1, 2\}$ and $B = \{3, 4, 5, 6\}$

Find

i. Compliment of A i.e. $\bar{A}$

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



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Question No : 26 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 : 25 of 26

Marks: 5 (Budgeted Time 10 Min)

Find

- i. Compliment of A i.e. $\bar{A}$
- ii. Compliment of B i.e. $\bar{B}$
- iii. Power set of A

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



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