

# 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  
(PHP, .NET, ANDROID, PYTHON)

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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)

When three coins are tossed simultaneously, P (3 Heads) is:

Answer ( Please select )

☒ 3/8

☐

☐ 1/8

☐

☐ 4/8

☐

☐ 2/8

☐



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Question No : 2 of 26

Marks: 1 (Budgeted Time 1 Min)

The distribution is mesokurtic if the moment ratio i.e.  $b_2$  is:

Answer ( Please select your correct option )

☐ Equal to 0

☒ Equal to 3

☐ Less than 3

☐ Greater than 3



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Question No : 3 of 26

Marks: 1 (Budgeted Time 1 Min)

A set is any well-defined collection of

Answer ( Please select your correct option )

☐ Positive Objects

☐ Negative Objects

☐ Same Objects

☐ Distinct Objects

correct

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Question No : 4 of 26

Marks: 1 (Budgeted Time 1 Min)

If an observation in the data set is negative, then the geometric mean is:

Answer ( Please select your correct option )

- ☐ Positive
- ☐ negative
- ☐ Zero
- ☐ undetermined

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Question No : 5 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 : 6 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 )

☐  $1/52$

☐  $13/52$

☐  $4/52$

☐  $26/52$

correct

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Question No : 7 of 26

Marks: 1 (Budgeted Time 1 Min)

For a positively skewed distribution  $m_3$  will be:

Answer ( Please select your correct option )

☐ Positive

☐ Negative

☐ Zero

☐ 1



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Question No : 8 of 26

Marks: 1 (Budgeted Time 1 Min)

Which of the following value could not represent a coefficient of correlation?

Answer ( Please select your correct option )

☐  $r = 0.99$

☐  $r = 1.09$

☐  $r = -0.73$

☐  $r = -1$

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Question No : 9 of 26

Marks: 1 (Budgeted Time 1 Min)

In a scatter diagram we plot:

Answer ( Please select your correct option )

☐ X and Y



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☐ X and  $\hat{Y}$

☐ Y and  $\hat{Y}$

☐  $\hat{Y}$  and X

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The conditional probability is  $P(A|B)$  is given by formula:

Answer ( Please select your correct option )

☐  $\frac{P(A \cup B)}{P(A)}$

☐  $\frac{P(A \cap B)}{P(B)}$

correct

☐  $\frac{P(A \cap B)}{P(A)}$

☐  $\frac{P(A \cup B)}{P(B)}$

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Question No : 11 of 26

Marks: 1 (Budgeted Time 1 Min)

If a curve has a longer tail to the right, it is called :

Answer ( Please select your correct option )

☐ Positively skewed



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☐ Negatively skewed

☐ J-shaped

☐ Symmetric

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Question No : 12 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 : 13 of 26

Marks: 1 (Budgeted Time 1 Min)

Which of the following scale has not true zero point?

Answer ( Please select your correct option )

☐ Nominal scale

☐ Ordinal scale

☐ Interval scale

☐ Ratio scale

correct

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Question No : 14 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 : 15 of 26

Marks: 1 (Budgeted Time 1 Min)

A set that contains all possible outcomes of a system is known as

Answer ( Please select your correct option )

- ☐ Finite Set
- ☐ Infinite Set
- ☒ Universal Set
- ☐ None of these

correct

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Question No : 16 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

correct

☐ Frequency curve

☐ Histogram

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Question No : 17 of 26

Marks: 1 (Budgeted Time 1 Min)

Mean is affected by the change of:

Answer ( Please select your correct option )

☐ Origin Only

☐ Scale Only

☐ Origin and Scale

☐ Not affected



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Question No : 18 of 26

Marks: 1 (Budgeted Time 1 Min)

What will be the mode for the data 2,3,4,5,4,6,4?

Answer ( Please select your correct option )

☐ 2

☐ 3

☒ 4

☐ 5

correct

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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 5, what will be the mean?

Answer ( Please select your correct option )

☐ 4

☒ 5

☐ 10

☐ 20

correct

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Question No : 20 of 26

Marks: 1 (Budgeted Time 1 Min)

It is easy to find the median when data is.....

Answer ( Please select your correct option )

☐ Arranged

☐ Discrete

☐ Attributed

☐ Continuous



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



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Question No : 22 of 26

Marks: 2 (Budgeted Time 4 Min)

For which type of data set, Empirical Rule is applied?

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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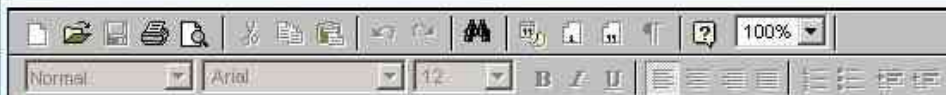


Question No : 24 of 26

Marks: 3 (Budgeted Time 6 Min)

A health club has four members. In how many ways three officers president, secretary and treasurer can be selected?

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



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Question No : 25 of 26

Marks: 5 (Budgeted Time 10 Min)

Following data shows the total number of overtime hours worked for 30 consecutive weeks by workers in a machine shop. Find (i) Minimum value (ii) Maximum value (iii) Lower Quartile (iv) Upper Quartile for the following data:

|    |    |    |    |    |    |    |    |    |    |    |    |
|----|----|----|----|----|----|----|----|----|----|----|----|
| 94 | 89 | 88 | 90 | 94 | 92 | 88 | 87 | 85 | 88 | 93 | 94 |
| 93 | 92 | 88 | 94 | 90 | 93 | 84 | 93 | 84 | 91 | 93 | 85 |

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



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Question No : 26 of 26

Marks: 5 (Budgeted Time 10 Min)

A man tosses two fair dice and obtained the following sample space S:

$\{(1, 1), (1, 2), (1, 3), (1, 4), (1, 5), (1, 6),$   
 $(2, 1), (2, 2), (2, 3), (2, 4), (2, 5), (2, 6),$   
 $(3, 1), (3, 2), (3, 3), (3, 4), (3, 5), (3, 6),$   
 $(4, 1), (4, 2), (4, 3), (4, 4), (4, 5), (4, 6),$   
 $(5, 1), (5, 2), (5, 3), (5, 4), (5, 5), (5, 6)\}$

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



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Question No : 26 of 26

Marks: 5 (Budgeted Time 10 Min)

(3, 1), (3, 2), (3, 3), (3, 4), (3, 5), (3, 6);  
(4, 1), (4, 2), (4, 3), (4, 4), (4, 5), (4, 6);  
(5, 1), (5, 2), (5, 3), (5, 4), (5, 5), (5, 6);  
(6, 1), (6, 2), (6, 3), (6, 4), (6, 5), (6, 6)

What is the conditional probability that the sum of the two dice will be 7, given that sum is greater than 6?

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

Rich text editor toolbar with icons for undo, redo, bold, italic, underline, link, unlink, list, indent, outdent, and a zoom dropdown set to 100%.

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Question No : 25 of 26

Marks: 5 (Budgeted Time 10 Min)

|    |    |    |    |    |    |    |    |    |    |    |    |
|----|----|----|----|----|----|----|----|----|----|----|----|
| 94 | 89 | 88 | 90 | 94 | 92 | 88 | 87 | 85 | 88 | 93 | 94 |
| 93 | 92 | 88 | 94 | 90 | 93 | 84 | 93 | 84 | 91 | 93 | 85 |
| 91 | 89 | 95 | 89 | 94 | 92 |    |    |    |    |    |    |

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

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