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

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Best of luck!

PAST PAPER

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 ⇦ CORRECT
- 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
- X and $\hat{Y}$
- Y and $\hat{Y}$
- $\hat{Y}$ and X

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

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

correct

- Ratio scale

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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
- 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

correct

- None of these

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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
- Frequency curve
- Historigram

correct

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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

correct

- 5

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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 correct
- 10
- 20

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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



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- Discrete
- Attributed
- Continuous

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

If we draw a card from an ordinary deck of 52 playing cards. Can king and diamond be mutually exclusive events? Give reason to support your answer.

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)



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)



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)



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)



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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