VIRTUAL UNIVERSITY OF PAKISTAN

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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)

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 Var (X-Y) = _____

Answer (Please select your correct option)

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

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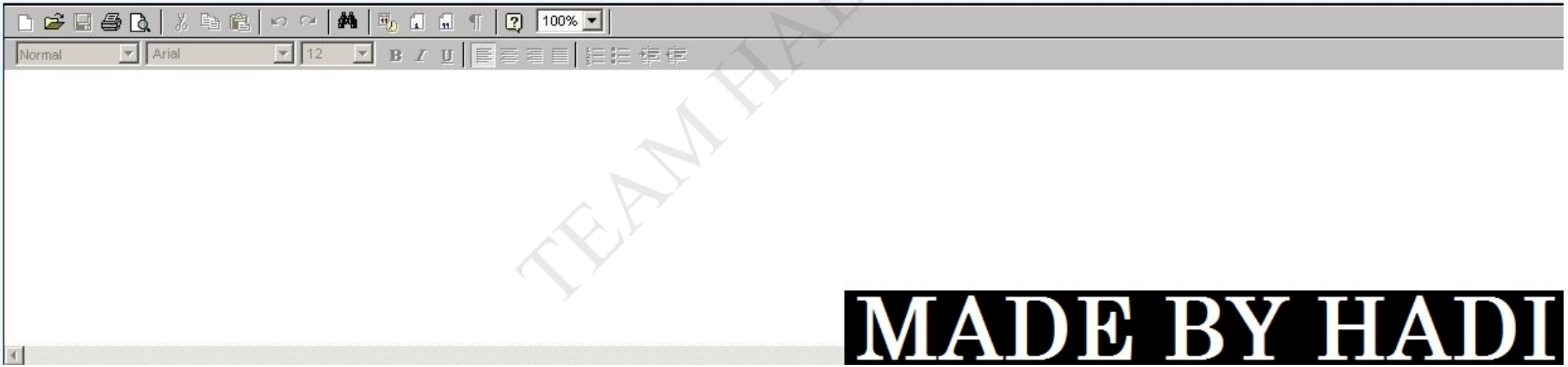
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Question No : 21 of 26 Marks: 2 (Budgeted Time 4 Min)

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 $S = \{1, 2, 3, 4, 5.....9\}$
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. $\overline{A}$
ii. Compliment of B i.e. $\overline{B}$
iii. Power set of A

Answer (Please click here to Add Answer)

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