

VIRTUAL UNIVERSITY OF PAKISTAN

A Good Education is a Foundation For a Better Future

CORRECT ANSWER SOLVED BY HADI
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(Final Term Past Paper)

MADE AND SOLVED BY TEAM HADI

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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FACEBOOK ID: <https://www.facebook.com/hadipastpapers/>

Best of luck!



PAST PAPER

If three coins are tossed, the minimum number of heads happen to be:

Select the correct option


<input type="radio"/>	2
<input type="radio"/>	1
<input type="radio"/>	0
<input type="radio"/>	3



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Which one of the following is the direct formula of covariance?

Select the correct option

<input type="radio"/>	$E \{[X - E(X)] [Y - E(Y)]\}$		<p>A Good Education is a Foundation For a Better Future CORRECT ANSWER SOLVED BY HADI EMAIL: hadirajputofficial@gmail.com WHATSAPP & CALL: 03087122922</p>
<input type="radio"/>	$(X)(Y)/E(X+Y)(X-Y)$		
<input type="radio"/>	$X/E(Y)+Y$		
<input type="radio"/>	$E(XY): [Y(X) + E(Y)]$		

The full form of p.d.f is:

Select the correct option

<input type="radio"/>	Prime distribution function
<input type="radio"/>	Probability density function
<input type="radio"/>	Population density function
<input type="radio"/>	Preface dimension function



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The binomial distribution can be classified as which one of the following kinds of distributions?

Select the correct option

- | | |
|-----------------------|-------------------------------------|
| <input type="radio"/> | Discrete probability distribution |
| <input type="radio"/> | Extreme value distribution |
| <input type="radio"/> | Beta distribution |
| <input type="radio"/> | Continuous probability distribution |

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Question # 6 of 15 (Start time: 07:12:50 PM, 18 February 2022)

The covariance of a random variable with itself can be known as Its:

Select the correct option

<input type="radio"/>	Variance		<p>A Good Education is a Foundation For a Better Future</p> <p>CORRECT ANSWER SOLVED BY HADI EMAIL: hadirajputofficial@gmail.com WHATSAPP & CALL: 03087122922</p>
<input type="radio"/>	Standard deviation		
<input type="radio"/>	Correlation		
<input type="radio"/>	Expected value		

Question # 10 of 15 (Start time: 07:19:02 PM, 18 February 2022)

Which one of the following happens to be the formula for mean, in case of a binomial distribution?

Select the correct option

- | | |
|-----------------------|----------------|
| <input type="radio"/> | $Pn = E(n)$ |
| <input type="radio"/> | $E(x) = np$ |
| <input type="radio"/> | $P = E(x)$ |
| <input type="radio"/> | $X(n) = E - x$ |



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Which one of the following tests enables us to determine in a statistical manner that whether or not the theoretical distribution fits the observed distribution reasonably well?

Select the correct option

<input type="radio"/>	Chi-square test		<p>A Good Education is a Foundation For a Better Future</p> <p>CORRECT ANSWER SOLVED BY HADI EMAIL: hadirajputofficial@gmail.com WHATSAPP & CALL: 03087122922</p>
<input type="radio"/>	Binomial test		
<input type="radio"/>	One-way Anova		

Question # 14 of 15 (Start time: 07:24:57 PM, 18 February 2022)

The binomial distribution will be skewed to the right in which one of the following cases?

Select the correct option

<input type="radio"/>	$P = q$
<input type="radio"/>	$P \leq q$
<input type="radio"/>	$P > q$
<input type="radio"/>	$P < q$



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Question # 1 of 15 (Start time: 08:09:41 PM, 18 February 2022)

Total Marks:

If X and Y are two variables that are statistically independent, then their covariance is represented by:

Select the correct option

<input type="radio"/>	1
<input type="radio"/>	0
<input type="radio"/>	2
<input type="radio"/>	3



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In the case of mathematical expectation of a continuous probability distribution, the summation sign is replaced by one of the following signs?

Select the correct option

Infinity

Under root

Permutation

Integration



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Question # 6 of 15 (Start time: 08:16:59 PM, 18 February 2022)

Total Marks

The derivation of the Poisson distribution is published in the year:

Select the correct option

<input checked="" type="radio"/>	1837	 <p>A Good Education is a Foundation For a Better Future CORRECT ANSWER SOLVED BY HADI EMAIL: hadirajputofficial@gmail.com WHATSAPP & CALL: 03087122922</p>
<input type="radio"/>	1765	
<input type="radio"/>	1890	
<input type="radio"/>	1678	

Which one of the following is the direct formula of covariance?

Select the correct option

$$(X)(Y)/E(X+Y)(X-Y)$$

$$E(XY): [Y(X) + E(Y)]$$

$$X/E(Y)+Y$$

$$E \{ [X - E(X)] [Y - E(Y)] \}$$

Question # 1 of 15 (start time: 08:22:08 PM, 18 February 2022)

Total Marks

Which one of the following happens to be the formula for co-efficient of variation?

Select the correct option

$n \times 100 / \mu$

$\Sigma / \mu \times 100$

$\mu \times 100 / f(x)$

$\mu \times 100 / n$



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Question # 13 of 15 (Start time: 08:22:29 PM, 18 February 2022)

Total Mark

Which one of the following happens to be the formula for variance, in case of a binomial distribution?

Select the correct option

$\text{Var}(X) = npq$

$\text{Var}(X) = n-1$

$\text{Var}(X) = n(n+1)$

$\text{Var}(X) = En-1$



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Question # 15 of 15 (Start time: 08:24:57 PM, 18 February 2022)

Total Marks: 1

Which one of the following happens to be the formula for mean, in case of a binomial distribution?

Select the correct option

<input type="radio"/>	$P=E(x)$
<input type="radio"/>	$X(n)=E-x$
<input type="radio"/>	$E(x)=np$
<input type="radio"/>	$Pn=E(n)$



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Question # 3 of 15 (start time: 08:25:02 PM, 18 February 2022)

Total Marks: 1

Two events, A and B are said to be independent if the probability of A into the probability of B is equal to:

Select the correct option

<input type="radio"/>	Probability of $A \cap B$
<input type="radio"/>	Probability of $A = B$
<input type="radio"/>	Probability of $A > B$
<input type="radio"/>	Probability of $A < B$



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Question # 4 of 15 (start time: 08:26:31 PM, 18 February 2022)

Total Marks: 1

The graph of the distribution function of a continuous random variable is formed as:

Select the correct option



A pie-chart



A J-shaped curve



A smooth bell curve



A bar graph



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Question # 6 of 15 (Start time: 08:29:48 PM, 18 February 2022)

Total Marks: 1

The parameter of the Poisson distribution is:

Select the correct option



$$\mu = \leq 4$$



$$\mu = \geq 2$$



$$\mu = < 1$$



$$\mu = > 0$$

Question # 7 of 15 (start time: 08:31:25 PM, 18 February 2022)

Total Marks: 1

The Poisson approximation is used in place of the binomial distribution when n is:

Select the correct option

50 or more

10 or more

20 or more

30 or more



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Question # 10 of 15 (start time: 08:36:09 PM, 18 February 2022)

Total Marks:

In the case of mathematical expectation of a continuous probability distribution, the summation sign is replaced by one of the following signs?

Select the correct option



Permutation



Under root



Integration



Infinity



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Question # 11 of 15 (start time: 08:37:51 PM, 18 February 2022)

Total Marks

A correlation of 0.95 can be best interpreted as which one of the following statements?

Select the correct option



A positive correlation



A Strong positive correlation



A weak positive correlation



A neutral correlation



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Question # 12 of 15 (Start time: 08:39:17 PM, 18 February 2022)

Total Marks: 1

The covariance of a random variable with itself can be known as its:

Select the correct option

<input type="radio"/>	Variance
<input type="radio"/>	Correlation
<input type="radio"/>	Standard deviation
<input type="radio"/>	Expected value



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Question # 13 of 15 (Start time: 08:40:34 PM, 18 February 2022)

Total Marks:

Which one of the following tests enables us to determine in a statistical manner that whether or not the theoretical distribution fits the observed distribution reasonably well?

Select the correct option

- Paired t-test
- Chi-square test
- Binomial test
- One-way Anova



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Question # 5 of 15 (start time: 08:53:22 PM, 18 February 2022)

Total Mark

How can you read the equation: " $2 \leq x < 3$ "?

Select the correct option

- The number 2 is excluded and 3 is included
- The number 2 is included but 3 is excluded
- L.H.S is equal to R.H.S
- The difference between 2 and 3 is 1



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Question # 6 of 15 (start time: 08:54:45 PM, 18 February 2022)

Total Marks:

A correlation of 0.95 can be best interpreted as which one of the following statements?

Select the correct option

- A Strong positive correlation
- A neutral correlation
- A positive correlation
- A weak positive correlation



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Question # 7 of 15 (start time: 08:55:21 PM, 18 February 2022)

Total Marks: 1

The binomial distribution can be classified as which one of the following kinds of distributions?

Select the correct option

- Continuous probability distribution
- Discrete probability distribution
- Beta distribution
- Extreme value distribution



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Question # 11 of 15 (start time: 08:58:24 PM, 18 February 2022)

Total Marks: 1

The full form of p.d.f is:

Select the correct option

- Population density function
- Preface dimension function
- Probability density function
- Prime distribution function



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Question # 12 of 15 (start time: 08:58:56 PM, 18 February 2022)

Total Marks:

The graph of the distribution function of a discrete random variable is also known as _____ owing to its shape?

Select the correct option

- Slide function
- Jump/step function
- Fall function
- Take function



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TEAM HADI VU (03087122922)

Question # 14 of 15 (start time: 09:00:36 PM, 18 February 2022)

Total Mark

The binomial distribution will be skewed to the right in which one of the following cases?

Select the correct option

- $P \leq q$
- $P > q$
- $P = q$
- $P < q$

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The graph of the distribution function of a discrete random variable is also known as _____ owing to its shape?

Select the correct option

- Fall function
- Slide function
- Jump/step function
- Take function



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Which one of the following is the correct explanation for the probability mathematical expression i.e., $P(10 \leq X \leq 15)$

Select the correct option



10 is less than or equal to x , which is again less than or equal to 15



10 is less than or equal to x , which is less than 15



10 is less than x , which is less than or equal to 15



10 is less than x , which is again less than 15

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Question # 11 of 15 (Start time: 09:28:53 PM, 18 February 2022)

In graphical representations, we can only get the mean in the center of the distribution only if it is:

Select the correct option

- A negatively skewed distribution
- A J-shaped distribution
- A U-shaped distribution
- A symmetric distribution

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Question # 13 of 15 (Start time: 08:32:13 PM, 18 February 2022)

The graph of the distribution function of a continuous random variable is formed as:

Select the correct option

- A J-shaped curve
- A smooth bell curve
- A pie-chart
- A bar graph



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Question # 14 of 15 (Start time: 09:33:17 PM, 18 February 2022)

The marginal probabilities occur on the margins of which one of the following kinds of tables?

Select the correct option

<input type="radio"/>	Bi-variable table
<input type="radio"/>	Uni-variate table
<input type="radio"/>	Probability spread sheet
<input type="radio"/>	Frequency distribution



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Question # 15 of 15 (Start time: 09:34:00 PM, 18 February 2022)

Which one of the following happens to be the value of the second moment ratio in the case of a Leptokurtic distrib

Select the correct option

- >3
- ≥ 4
- ≤ 2
- >1



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$f(x, y) > 0$ for all (x, y) is a property pertaining to which one of the following kinds of distributions?

Select the correct option

<input type="radio"/>	Discrete bi-variate
<input type="radio"/>	Continuous univariate
<input type="radio"/>	Discrete univariate
<input type="radio"/>	Continuous bi-variate



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Question # 4 of 15 (Start time: 09:38:40 PM, 18 February 2022)

How can you read the equation: " $2 < x < 3$ "?

select the correct option

- L.H.S is equal to R.H.S
- The number 2 is included but 3 is excluded
- The difference between 2 and 3 is 1
- The number 2 is excluded and 3 is included



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Question # 5 of 15 (start time: 09:39:16 PM, 18 February 2022)

Which one of the following happens to be the formula for mean, in case of a binomial distribution?

Select the correct option

<input checked="" type="radio"/>	$E(x) = np$
<input type="radio"/>	$Pn = E(n)$
<input type="radio"/>	$P = E(x)$
<input type="radio"/>	$X(n) = E - x$



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Question # 6 of 15 (Start time: 09:39:56 PM, 18 February 2022)

The binomial distribution will be skewed to the right in which one of the following cases?

Select the correct option

<input type="radio"/>	$p = q$
<input type="radio"/>	$p < q$
<input type="radio"/>	$p \leq q$
<input type="radio"/>	$p > q$



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Question # 8 of 15 (Start time: 09:41:43 PM, 18 February 2022)

Which one of the following happens to be the formula for co-efficient of variation?

Select the correct option

- | | |
|----------------------------------|-------------------------|
| <input type="radio"/> | $\mu \times 100 / n$ |
| <input type="radio"/> | $n = 100 / \mu$ |
| <input type="radio"/> | $\Sigma / \mu = 100$ |
| <input checked="" type="radio"/> | $\mu = 100 / \sigma(x)$ |



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Question # 11 of 15 (Start time: 09:44:37 PM, 18 February 2022)

Suppose that A is an event, and its compliment is \bar{A} . If the probability of A is $1/K2$, then the probability of \bar{A} will be written with a

Select the correct option

<input type="radio"/>	3
<input type="radio"/>	2
<input type="radio"/>	1
<input type="radio"/>	0



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Question # 15 of 15 (Start time: 09:49:09 PM, 18 February 2022)

The derivation of the Poisson distribution is published in the year:

Select the correct option

- | | |
|-----------------------|------|
| <input type="radio"/> | 1890 |
| <input type="radio"/> | 1837 |
| <input type="radio"/> | 1678 |
| <input type="radio"/> | 1765 |



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