



UNIVERSITY NAME

Final Exam – 2015

Course Title

INDEX555

Teacher Name

Student Information *(fill completely)*

First Name

Last Name

Student ID

Attention

Good Luck!

- Exam Duration: 2 hours
- Permitted Materials: Permitted materials
- Any Caution

№1. Problem

5 point

Joint distribution given by table.

X	Y		
	-1	0	1
-1	0.2	0.2	0.1
0	0	0.1	0.2
1	0	0	0.2

Are random variables correlated?

*Solution ...***№2. Question**

3 point

Let X and Y are independent random variables. Find $E(XY)$. Where E – expectation of random variable.*Answer ...***№3. Selective Test**

2 point

What planet do you live on?

Select ...

A. Earth B. Mars C. Jupiter D. Saturn

№4. Placement Test

3 point

Let $EX = 2$ and $EY = 1$. $E(2X + Y) = \underline{\hspace{1cm}} + EY$.**№5. Placement Test**

3 point

Attila was king of the .

Total point 16

*** End of Examination ***



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*Solution ...***№2. Question**

3 point

Let X and Y are independent random variables. Find $E(XY)$. Where E – expectation of random variable.*Answer ...***№3. Selective Test**

2 point

What planet do you live on?

Select ...

A. Earth B. Mars C. Jupiter D. Saturn

№4. Placement Test

3 point

Let $EX = 2$ and $EY = 1$. $E(2X + Y) = \underline{\hspace{1cm}} + EY$.**№5. Placement Test**

3 point

Attila was king of the .

№6. Problem

5 point

Joint distribution given by table.

X	Y		
	-1	0	1
-1	0.2	0.2	0.1
0	0	0.1	0.2
1	0	0	0.2

Are random variables correlated?

Solution ...

№7. Question

3 point

Let X and Y are independent random variables. Find $E(XY)$. Where E – expectation of random variable.

Answer ...

№8. Selective Test

2 point

What planet do you live on?

Select ...

A. Earth B. Mars C. Jupiter D. Saturn

№9. Placement Test

3 point

Let $EX = 2$ and $EY = 1$. $E(2X + Y) = \underline{\hspace{1cm}} + EY$.

№10. Placement Test

3 point

Attila was king of the $\underline{\hspace{1cm}}$.

Total point 32

*** End of Examination ***