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NPTEL

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Courses » Principles of Digital Communications

Announcements **Course** Ask a Question Progress Mentor FAQ

## Unit 1 - How to access the portal

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Course outline

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How to access the portal

- How to access the home page?
- How to access the course page?
- How to access the MCQ, MSQ and Programming assignments?
- Quiz : Assignment 0

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Week 1

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Week 2

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Week 3

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Week 4

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Week 5

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Week 6

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Week 7

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Week 8

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Week 9

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Week 10

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Week 11

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Week 12

## Assignment 0

The due date for submitting this assignment has passed.  
As per our records you have not submitted this assignment. **Due on 2018-07-30, 23:59 IST.**

MCQs in assignment 0

1) What is the bandwidth of RC LPF? **1 point**

1/RC

RC

$RC^2$

$R^2C$

**No, the answer is incorrect.**  
**Score: 0**

**Accepted Answers:**  
*RC*

2) X is Rayleigh distributed with parameter  $\lambda = 1$ , then  $X^2$  is distributed **1 point**

exponentially distributed with parameter  $\alpha = 1$

Rayleigh distributed with parameter  $\lambda = 1$

exponentially distributed with parameter  $\alpha = 1/\sqrt{2}$

Rayleigh distributed with parameter  $\lambda = 1/\sqrt{2}$

**No, the answer is incorrect.**  
**Score: 0**

**Accepted Answers:**  
*exponentially distributed with parameter  $\alpha = 1$*

3) Number of child births in a day in a town is a random variable  $N$ , which is Poisson distributed with parameter  $\lambda$ . In each birth, the probability of the child being a girl is  $p$ . The probability distribution of the number of girls born in a day is given by **1 point**

Poisson distributed with parameter  $\lambda p$

Poisson distributed with parameter  $\lambda p^2$

**No, the answer is incorrect.**  
**Score: 0**

**Accepted Answers:**  
*Poisson distributed with parameter  $\lambda p$*

Short answer questions in assignment 0

4) A binomial distribution with parameters  $n = 15$  and  $p = 0.6$  has mean

**No, the answer is incorrect.**  
**Score: 0**

**Accepted Answers:**  
(Type: Numeric) 9  
(Type: String) 9.0

**1 point**

5) Variance of two independent random variables X and Y are 4 and 5 respectively. The variance of  $2X+3Y$  is

**No, the answer is incorrect.**  
**Score: 0**

**Accepted Answers:**  
(Type: Numeric) 61

**1 point**

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