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Courses » Modern Digital Communication Techniques

Announcements **Course** Ask a Question Progress FAQ

# Unit 8 - Week 6

Register for Certification exam

## Course outline

How to access the portal

Week 0

Week 1

Week 2

Week 3

Week 4

Week 5

**Week 6**

- Lecture 26 : Memoryless Modulation (Contd.)
- Lecture 27 : Memoryless Modulation (Contd.)
- Lecture 28 : Memoryless Modulation (Contd.)
- Lecture 29 : Memoryless Modulation (Contd.)

## Week 6 Assignment 6

The due date for submitting this assignment has passed.

As per our records you have not submitted this assignment. **Due on 2019-03-13, 23:59 IST.**

- 1)  a. **1 point**  
 b.  
 c.  
 d.

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

**Accepted Answers:**  
 b.

- 2) **1 point**  
 a.  
 b.  
 c.  
 d.

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

**Accepted Answers:**  
 c.

- 3) **1 point**

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Feedback for week 6

Week 7

Week 8

Week 9

Week 10

Week 11

Week 12

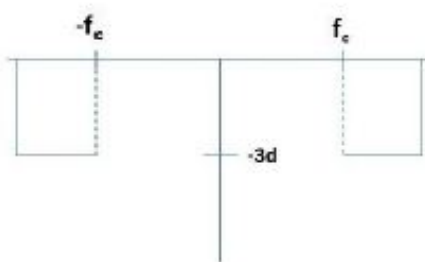
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Assignment Solution

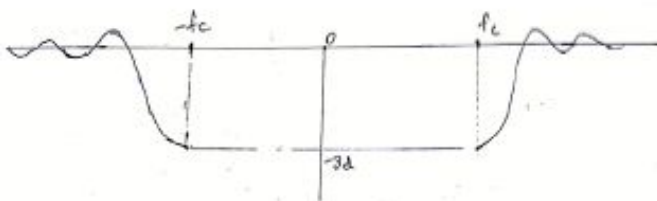
ce De

If we use  $g(t)$  as rectangular pulse in the previous question, then the frequency domain representation of the output signal of the modulator using SSB modulation at the value obtained after  $t = 5T_s$ , where  $T_s =$  duration of  $g(t)$  is given as,

a.



b.



c.



d. None of these.

- a.
- b.
- c.
- d.

No, the answer is incorrect.

Score: 0

Accepted Answers:

b.

- 4)  a.
- b.
  - c.
  - d.

1 point

No, the answer is incorrect.

Score: 0

Accepted Answers:

b.

- 5)  a.

1 point

- b.
- c.
- d.

No, the answer is incorrect.

Score: 0

Accepted Answers:

a.



1 point



- 6)  a.
- b.
  - c.
  - d.

No, the answer is incorrect.

Score: 0

Accepted Answers:

c.



1 point

- 7)  a.
- b.
  - c.
  - d.

No, the answer is incorrect.

Score: 0

Accepted Answers:

a.

- 8)  a.
- b.
  - c.
  - d.

No, the answer is incorrect.

Score: 0

Accepted Answers:

c.

1 point

- 9)  a.
- b.
  - c.
  - d.

No, the answer is incorrect.

Score: 0

Accepted Answers:

a.

1 point

- 10)  a.
- b.
  - c.
  - d.

1 point

No, the answer is incorrect.

Score: 0

Accepted Answers:

c.

- 11)  a.  
 b.  
 c.  
 d.

1 point



No, the answer is incorrect.

Score: 0

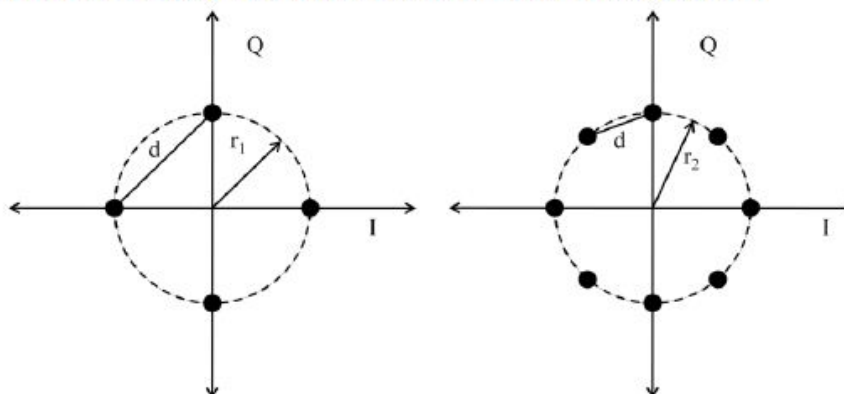
Accepted Answers:

a.

12)

1 point

A four phase and an eight-phase signal constellation are shown in the figure below.



For the constraint that the minimum distance between pairs of signal points be  $d_{\min}^e$  for both constellations, the radii  $r_1$  and  $r_2$  of the circles are

- a.  $r_1 = 0.707 d_{\min}^e, r_2 = 1.8478 d_{\min}^e$   
 b.  $r_1 = d_{\min}^e, r_2 = 1.932 d_{\min}^e$   
 c.  $r_1 = 0.707 d_{\min}^e, r_2 = 1.545 d_{\min}^e$   
 d.  $r_1 = d_{\min}^e, r_2 = 1.8478 d_{\min}^e$

- a.  
 b.  
 c.  
 d.

No, the answer is incorrect.

Score: 0

Accepted Answers:

d.

- 13)  a.  
 b.  
 c.  
 d.

1 point

No, the answer is incorrect.

Score: 0

Accepted Answers:

*b.*

14)  a. **1 point**

b.

c.

d.

**No, the answer is incorrect.**

**Score: 0**

**Accepted Answers:**

*d.*

15)  a. **1 point**

b.

c.

d.

**No, the answer is incorrect.**

**Score: 0**

**Accepted Answers:**

*b.*

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End