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. 
   b. 
   c. 
   d. 

No, the answer is incorrect.
Score: 0
Accepted Answers: b.

2) a. 
   b. 
   c. 
   d. 

No, the answer is incorrect.
Score: 0
Accepted Answers: c.

3) 

Score: 0
Accepted Answers: 

1 point

1 point

1 point
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,

\[
\begin{align*}
a. & \quad -f_c & f_c \\ b. & \quad \text{Sine wave} \\ c. & \quad \text{Cosine wave} \\ d. & \quad \text{None of these}
\end{align*}
\]

No, the answer is incorrect. 
Score: 0 
Accepted Answers: b.

4) \( 1 \) point

No, the answer is incorrect. 
Score: 0 
Accepted Answers: b.

5) \( 1 \) point
No, the answer is incorrect.
Score: 0
Accepted Answers:
a.

6) a.  
   b.  
   c.  
   d.

No, the answer is incorrect.
Score: 0
Accepted Answers:
c.

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.

9) a.  
   b.  
   c.  
   d.

No, the answer is incorrect.
Score: 0
Accepted Answers:
a.

10) a.  
    b.  
    c.  
    d.
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 $d_{\text{min}}^e$ for both constellations, the radii $r_1$ and $r_2$ of the circles are

a. $r_1 = 0.707 \ d_{\text{min}}^e$, $r_3 = 1.8478 \ d_{\text{min}}^e$
b. $r_1 = d_{\text{min}}^e$, $r_2 = 1.932 \ d_{\text{min}}^e$
c. $r_1 = 0.707 \ d_{\text{min}}^e$, $r_3 = 1.545 \ d_{\text{min}}^e$
d. $r_1 = d_{\text{min}}^e$, $r_2 = 1.8478 \ d_{\text{min}}^e$

No, the answer is incorrect.  
Score: 0  
Accepted Answers: d.
14)  

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

No, the answer is incorrect.  
Score: 0  
Accepted Answers:  

15)  

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

No, the answer is incorrect.  
Score: 0  
Accepted Answers:  

b.