<u>Dashboard</u> / My courses / <u>Term II(2020-21)</u> / <u>T2-20-ESS103</u> / <u>Course Activities</u> / <u>Quiz 1</u>

Started on	Thursday, 28 January 2021, 11:52 AM
State	Finished
Completed on	Thursday, 28 January 2021, 12:22 PM
Time taken	30 mins 1 sec
Marks	14.00/14.00
Grade	10.00 out of 10.00 (100 %)

Question **1**Correct

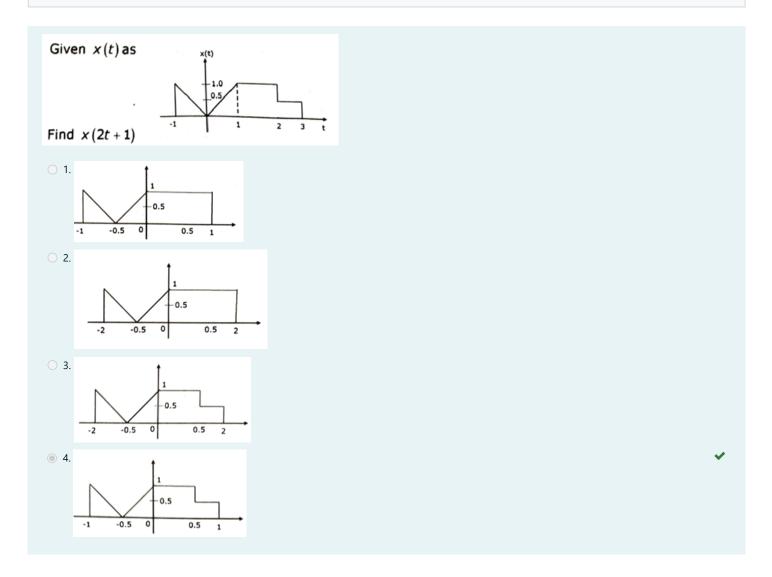
Mark 1.00 out of 1.00

The signal $x(t) = e^{-2t}u(t)$ is

- a. power signal with $P = \frac{1}{4}$
- b. Energy signal with $E = \frac{1}{4}$
- c. power signal with P = 0
- od Energy signal with e = 0

Question **2**Correct

Mark 1.00 out of 1.00



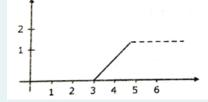
Question ${\bf 3}$ Correct

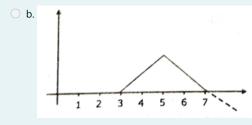
Mark 1.00 out of 1.00

A signal is given by x(t) = r(t-3) - r(t-5).

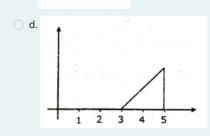
This signal is represented by







C. None of these



Question ${\bf 4}$

Correct

Mark 1.00 out of 1.00

Determine the period of the signal given below.

$$x(n) = \cos\frac{\pi n}{4}\cos\frac{\pi n}{3}$$

a. 24

- o b. 12
- o. 4
- Od. 3

Question 5	
Correct	
Mark 1.00 out of 1.00	



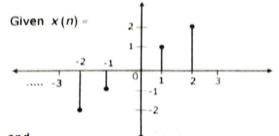
Question **6**Correct
Mark 1.00 out of 1.00

Average power and energy of unit step sequence, u(n) respectively is

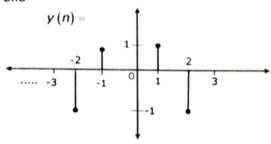
- \bigcirc 1. $\frac{1}{2}$ and $\frac{1}{2}$
- 2. 1 and ∞
- 3. ¹/₂ and ∞
- 4. 1 and 1

Question **7**Correct

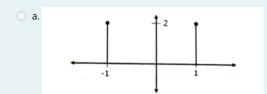
Mark 2.00 out of 2.00

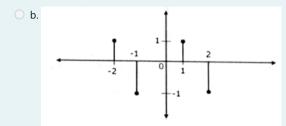


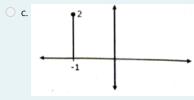
and

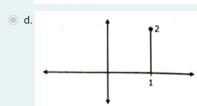


Then x(2-n)y(n)+y(2-n)x(n) will be:









Question ${\bf 8}$ Correct

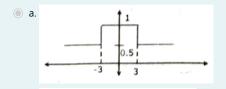
Mark 1.00 out of 1.00

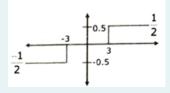
Consider $x(n) = \{1, 0, -2, -3, 0, 1, 2, 3, 4\}$ then x(2n) will be:

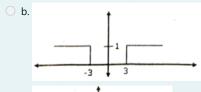
- a. {1, -2, 0, 2, 4}
- Ob. None of these
- c. {0, -3, 1, 3}d. {0, -2, 2, 4}

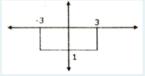
Question **9**Correct
Mark 1.00 out of 1.00



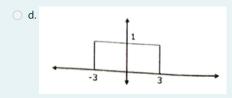


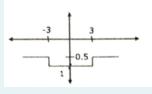






C. None of these





Question **10**Correct

Mark 1.00 out of 1.00

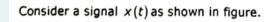
u(n) + u(-n) is equal to

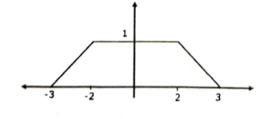
- o a. 2
- \circ b. $1 + \delta(n)$
- \circ c. $2 + \delta(n)$
- od. 1

Question 11

Correct

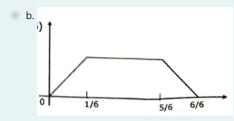
Mark 1.00 out of 1.00

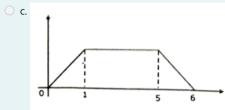


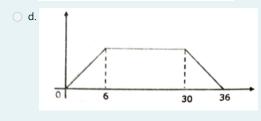


Now sketch of y(t) = x(6t-3)

oa. None



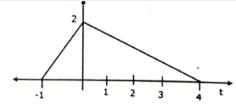




Question **12**Correct

Mark 2.00 out of 2.00

x(t) is given as



The value of 't' for which $x\left(-2t+\frac{3}{2}\right)$ will become zero.

- a. -1.25, 1.25
- b. -1.25, 2.5
- oc. 2.5, -2.5
- od. 1.25, -2.5

■ Notes Folder

Quiz 2 ►