Started on  Thursday, 1 May 2025, 10:45 AM	State -O Finished	Completed on  Thursday, 1 May 2025, 10:48 AM	Time taken  3 mins 6 secs
Marks Grade  ✓ 5.00/5.00 Ø 10.00 out of 10.00	00 (100%)		
Question 1			Flag question
Complete Mark 1.00 out of 1.00  ECTE203_Q2			
You can reconstruct the signal below if san x = 3 sin (65*pi*t + pi/3);	npled at 70 Hz, with	out aliasing.	
Select one:			
True			
False			
Question 2			Flag question
Complete Mark 1.00 out of 1.00			
ECTE203_Q2 Triangle and Square pulses use the constant value k of and respectively.			
a. 0,1			
b. 1,-1			
© c. 1,0			
d1,0			

**Question 3** 

Flag question

Complete

Mark 1.00 out of 1.00

ECTE203\_Q2

Which option describes the given pulse function?

$$f(t) = \begin{cases} \frac{3t}{(Ts)} - 1 & -0.2Ts < t < 0.2Ts \\ 0 & otherwise \end{cases}$$

- idx = find( (t > -0.2 \* Ts) & (t < 0.2 \* Ts)); a. x(idx) = 3\*t/(Ts - 1);
- b. idx = find((t > -0.2 \* Ts) || (t < 0.2 \* Ts));x(idx) = 3\*t/Ts -1;
- idx = find( (t > -0.2 \* Ts) & (t <= 0.2 \* Ts)); c.  $\frac{x(idx)}{x(t)} = 1-abs(t)/Ts;$
- idx = find( (t > -0.2 \* Ts) & (t < 0.2 \* Ts)); d. x(idx) = 3\*t/Ts -1;

**Question 4** 

Flag question

Complete

Mark 1.00 out of 1.00

ECTE203\_Q2

Signal x has been sampled at 80Hz. Find out the normalized frequency Fd.

 $x = 2.5 \cos (16pi*t + pi/3);$ 

Answer:

0.1

## Question 5 Complete Mark 1.00 out of 1.00 ECTE203\_Q2 Given the signal below, what is the signal frequency and Nyquist frequency? $x = 2.5 \sin (80^{\circ}pi^{\circ}t + 2.1)$

a. 40, 80

b. 80, 80

c. 80, 40

d. 80, 160

Finish review