

# Final Assessment Test - November 2019

Course: ECE1004 - Signals and Systems

Class NBR(s): 0774 / 0800 / 0831 / 0839 /3919

Time: Three Hours

Slot: CZ

Max. Marks: 100

050

151

#### KEEPING MOBILE PHONE/SMART WATCH, EVEN IN 'OFF' POSITION, IS EXAM MALPRACTICE

#### Answer ALL Questions (10 X 10 = 100 Marks)

- For the signal x(t) shown in figure, draw the signals:
  - (a) x(t-1)
  - (b) x(2-1)
  - (c) x(2t+1)
  - (d)  $x(4 \frac{r}{2})$
  - (e)[x(t) + x(-t)]u(t)



- 2. a) Find whether the following signals are periodic, if yes, find the periodicity
  - i.  $x(t) = 2 \cos t + 3 \cos \frac{t}{2}$
  - ii.  $x(t) = 2 \cos \pi t + 7 \cos t$
  - Determine whether the following signals are energy signals or power signals and calculate their energy or power
    - a)  $x(t) = rect(\frac{t}{T_0})$
    - b)  $x(t) = \cos^2 \omega_0 t$
    - c)  $x(t) = rect(\frac{t}{T_0}) cos \omega_0 t$
- The following CT systems are described using their input-output relationships between the input signal x(t) and output y(t). Determine if the CT systems are: (i) linear; (ii) time-invariant; (iii) stable; and (iv) causal.
  - (a) y(t) = x(t-2)
  - (b) y(t) = tx(t + 10)
  - (c)  $y(t) = \begin{cases} x(t) x(t-5) & t \ge 0 \\ 0 & t < 0 \end{cases}$
- 4. Obtain the trigonometric Fourier series of the periodic waveform shown in the figure below:





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