Practice test 2020-21 Signals and systems (objective Type)

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Untitled Section

Q.1. Which signals are function of time?

○ OptioRandom signalsn 1

◉ Deterministic signalsOption 2

○ Random and Deterministic signals

○ None of the above.

Clear selection

Q.2. Auto-correlation function is a

◉ Even function

○ Odd function

○ Even & Odd function both

○ None of the mentioned

Clear selection

Q.3.In Unit impulse function

○ Pulse width is zero

○ Area of pulse curve is unity

○ Height of pulse goes to infinity

◉ All of the above

○ Other:

Clear selection

Q.4. Which condition determines the causality of the LTI system in terms of its impulse response?

◉ Only if the value of an impulse response is zero for all negative values of time

○ Only if the value of an impulse response is unity for all negative values of time

○ Only if the value of an impulse response is infinity for all negative values of time

○ Only if the value of an impulse response is negative for all negative values of time

○ Other:

Clear selection

Q.5 Condition for orthogonality is

○ cross-correlation of X1(t) and X2(t) is zero i.e R12(0)=0

○ cross- correlation of X1(t) and X2(t) is one i.e. R12(0)=1

○ option 1 and option 2 both are correct

○ none

○ Other:

Q.6 Laplace transform if sin(at)u(t) is?

○ s ╱ a^2+s^2

◉ a ╱ a^2+s^2

○ s^2 ╱ a^2+s^2

○ a^2 ╱ a^2+s^2

○ Other:

Clear selection

Q.7 What is the ROC of z-transform of finite duration anti-causal sequence?

○ z=0

○ z=infinity

○ Entire z-plane, except at z=0

◉ Entire z-plane, except at z=infinity

Clear selection

Q.8 Inverse z-Transform can be calculated from-

○ Long Division Method

○ Partial fractions

◉ From both Long Division and Partial fraction

○ non of the above

Clear selection

Q.9 Which Statement is Correct-

○ Output of FIR filter depends on present and past inputs.

○ FIR are filters are always stable .

○ FIR filters are all zero filters.

⦿ All of the above.

○ Other:

Clear selection

Q.10 Structures for IIR filter are :

○ Direct Form I

○ Dirct Form II

⦿ Direct Form I and Direct Form II

○ None of the Above.

○ Other:

Clear selection

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