Module 5 Quiz

* Required

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1. Calculate the minimum sampling rate to avoid aliasing when a continuous   1 point
time signal is given by x(t) = 5 cos 400πt *

- ◉ A 400 Hz
- ○ B 250 Hz
- ○ C 100 Hz
- ○ D None of the above

2. A low pass filter is *   1 point

- ○ A Is used to recover signal from sampled signal
- ○ B Passes the frequencies lower than the specified cut off frequency
- ○ C Rejects higher frequencies
- ◉ D All of the above

3. Types of analog pulse modulation systems are *   1 point

○ A Pulse amplitude modulation

○ B Pulse time modulation

○ C Frequency modulation

◉ D Both a and b

4. Drawback of using PAM method is *   1 point

○ A Due to varying amplitude of carrier, it is difficult to remove noise at receiver

○ B Bandwidth is very large as compared to modulating signal

○ C Varying amplitude of carrier varies the peak power required for transmission

◉ D All of the above

5. In communication the sampling technique leads to – *   1 point

◉ A Higher speed of communication

○ B cheaper equipment

○ C Higher efficiency

○ D All of the above

6. The signal can be reconstructed *   1 point

○ a) At Nyquist rate

○ b) Above Nyquist rate

◉ c) At & above the Nyquist rate

○ d) None of the mentioned

7. The effects of aliasing are _____ *   1 point

○ a) Attenuation of high frequency spectral replicates

○ b) Non uniform spectral gain applied to desired baseband spectrum

◉ c) Attenuation and non uniform spectral gain

○ d) None of the mentioned

8. Multiplication of input signal with pulse train is done in _____   1 point
sampling. *

○ a) Impulse sampling

◉ b) Natural sampling

○ c) Flat top sampling

○ d) None of the mentioned

9. Flat top sampling of low pass signals *   1 point

◉ a) Gives rise to aperture effect

○ b) Implies over sampling

○ c) Leads to aliasing

○ d) Introduces delay distortion

10. A PAM signal can be detected using *   1 point

○ a) Low pass filter

○ b) High pass filter

○ c) Band pass filter

○ d) All pass filter

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