Special test FDC	
1906677@kiit.ac.in Switch account  Saving disabled  Your email will be recorded when you submit this form  * Required	
To recover the message signal from the sampled values, a filter is applied. 1 po Which is  A sinc function in time domain  A rectangular function in time domain  A rectangular function in frequency domain  A sinc function in frequency domain	int
A multiplexing system is using several carrier signals of different frequencies - identify the multiplexing system *  TDM  FDM  PCM - TDM  None of them	int

Which signal gives better noise immunity	1 point
O Digital	
O None of them	
O Both of them	
Analog	
In PCM the carrier used is	1 point
Both analog and digital	
O Digital	
O No carrier used	
Analog	
Delta modulation is better than PCM	1 point
both PCM and delta have the same bit rate for a given signal	
bit rate is less compared to PCM	
PCM is having less quantization error than delta	
quantization noise is less in Delta modulation than PCM	

An analog signal of bandwidth 1KHz is to be transmitted using PCM. The maximum tolerable error is 0.3% of peak signal amplitude. The minimum data rate of the system is	2 points
O 24 kbps	
18 kbps	
O 20 kbps	
O 16 kbps	
A regenerative repeater can be used in	1 point
O Digital Systems	
None of them	
Analog systems	
Both Analog and Digital Systems	
Which signal is easier to transmit in a band limited channel	1 point
Analog	
None of them	
O Digital	
O Both of them	

What is the error introduced in Flat top sampling -	1 point
O Aperture error	
Quantization error	
Over Sampling error	
O No error	
Synchronization is very important in which multiplexing technique	1 point
○ TDM	
O Both of them	
O None of them	
○ FDM	
Significance of guard time in PCM- TDM system is	1 point
separates the samples from other sample vales	
its used to add more no of bits in the frame so bit rate can be high	
its used for synchronization	
its used to lengthen the frame time	

A PCM system is having 1024 level of quantization. A signal 12cos(2000 $\Pi$ t) is applied in it. Find the SNR	1 point
○ 100 dB	
○ 61.8 dB	
Can't be calculated from the information	
○ 60 dB	
Synchronization is very important in which multiplexing technique	1 point
○ FDM	
O Both of them	
→ TDM	
None of them	
In a resources constrained TDM system	1 point
PPM can be used because it has fixed frequency and amplitude	
PWM can be used because it has fixed amplitude	
onone of the given answers	
PAM can't be used because amplitude varies in PAM	

A PCM-TDM system multiplexes 15 voice band channels. Each sample is encoded into 10 bits and there are 3 synchronizing bits per frame. The sampling rate is 108 samples per second. Determine the minimum transmission bandwidth required for communication.	ts
16.5 kHz	
16.524 kHz	
8.262 kHz	
○ 8.35 kHz	
A flat top sampling if compared with natural sampling	nt
Will be better as we have flat sample values compared to natural one which is varying	
will not be advantageous as signal information is lost in flat top sampling	
Error will be more in flat top sampling in a noiseless environment	
Error can be less in natural sampling in noisy environment	
A DCM system is baying 1034 level of systemics. A signal 13 as (2000 Et)	
A PCM system is having 1024 level of quantization. A signal 12cos(2000Πt) 1 poi is applied in it. Find the total Quantization noise.	1t
O 1	
Can't be calculated	
0.023	
0.000046	

while taking samples in a sampling process, should we over sample or under sample for practical applications	ooint
ounder sample	
oritically sample	
all of them	
O over sample	
A PCM system is having 1024 level of quantization. A signal 12cos(2000Πt) 1 is applied in it. Find the step size.	point
one of them	
0.0468	
0.023	
0.011	
Is it always advantageous to take more samples than the Nyquist rate	point
O No, because more samples will increase the system bandwidth	
No, we just need enough samples to avoid spectral overlapping and use of available devices.	!
Yes, because more samples can be used for better reconstruction	
Yes, because the more samples will increase the possibility of aliasing	

Sampling theorem and Reconstruction theorem	1 point
Both are applied for continuous time signals	
both satisfy the same condition	
Sampling theorem is applied on discrete time signals and Reconstruction theore applied on continuous time signals	em is
Both are applied for discrete time signals	
IS 7 (4000 FIX) in a supplied for a supplied to the suppli	
If 7cos(4000Πt) is applied for sampling process. At which maximum sampling rate, aliasing will happen?	1 point
4000 samples / sec	
7999 samples/ sec	
8000 samples/ sec	
3999 samples/ sec	
Anti-aliasing filer is used to	1 point
remove unwanted low frequencies	
reject all the low frequencies	
remove both high and low frequencies	
remove unwanted high frequencies	

If three signals 2cos(5000Πt), 1+7cos(4000Πt) & 12cos(8000Πt) are applied for sampling. What should be the sampling frequency	1 point
8000 samples / sec	
5000 samples / sec	
17000 samples / sec	
4000 samples / sec	
Which signal is easier to transmit in a band limited channel	1 point
Which signal is easier to transmit in a band limited charmer	1 point
Both of them	
None of them	
O Digital	
Analog	
Aliasing is a problem happens during -	1 point
onone of them	
O over sampling	
ounder sampling	
oboth of them	

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If three signals $2\cos(5000\Pi t)$ , $1+7\cos(4000\Pi t)$ & $12\cos(8000\Pi t)$ are applied for sampling. What should be the sampling time.	1 point
O.000125 sec	
O.00025 sec	
O.0002 sec	
O.000059 sec	

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