

28/11/2018 (Regular)

5<sup>th</sup> Sem. B.Tech. & B.Tech. Dual Degree  
DCT EC3005  
(GATE)



**AUTUMN END SEMESTER EXAMINATION-2018**  
**5<sup>th</sup> Semester B.Tech & B.Tech Dual Degree**  
**DIGITAL COMMUNICATION TECHNIQUE**  
**EC3005**

[For 2017(L.E.), 2016 & 2015 Admitted Batches]

Time: 3 Hours

Full Marks: 60

*Answer any Six questions including question No.1 which is compulsory.*

*The figures in the margin indicate full marks.*

*Candidates are required to give their answers in their own words as far as practicable and all parts of a question should be answered at one place only.*

1. (a) Define random variable and random process. Probability density function is given by  $f_X(x) = Ke^{-|x|}$ . Here X is the random variable whose values lie in the range -4 to 4. Determine the value of K. [2 × 10]
- (b) The output SQNR of a 10bit PCM was found to be insufficient at 30 dB. To achieve the desired SNR of 50dB, it was decided to increase the number of quantisation levels L. Find the fractional increase in the transmission bandwidth required for this increase in L.
- (c) Discuss the drawbacks of DM system with neat diagrams and briefly explain how ADM overcomes them?
- (d) A delta modulator system is designed to operate at five times the Nyquist rate for a signal having a bandwidth equal to 6KHz. Calculate the maximum amplitude of a 2KHz input sinusoid for which the delta modulator does not have slope overload . Given that the quantising step size is 250mV.
- (e) What is digital multiplexing? Draw the block diagram of T 1 carrier system and calculate its output bit rate.

# Digital Communication Techniques Question Paper

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