

28/11/2018 (Regular)

5<sup>th</sup> Sem. B.Tech & B.Tech Dual Deg.  
DCT EC3005  
(E&TC)



**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

**ML Yell**



## **Digital Communication Techniques Question Paper:**

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improvement familiarize themselves with the types of questions commonly asked and develop effective time management strategies The primary goal of this book is to encourage self assessment and critical thinking We strongly recommend that students attempt these papers under timed conditions simulating the real exam environment as closely as possible This approach will not only help in building confidence but also in honing the skills required to tackle the examination successfully We have taken great care to ensure that the content of this book is accurate and aligned with the CBSE curriculum The questions are arranged in a manner that allows for progressive learning starting from basic concepts and gradually moving towards more complex topics This structure is intended to help students strengthen their knowledge base while also challenging them to think critically and analytically

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**Digital Communications Systems** North Atlantic Treaty Organization. Advisory Group for Aerospace Research and Development. Sensor and Propagation Panel. Symposium,1996

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