

28/11/2018 (Regular)

5<sup>th</sup> Sem. B.Tech. & B.Tech. Dual Deg.  
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

**Michael Rajnik**



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**Digital Technology & Information Systems** Debasis Dhal, Biswapati Jana, Rajat Kumar Pal, 2025-04-29 This book provides a comprehensive understanding of digital technology information systems and their growing significance in modern society It covers a wide range of topics starting with the evolution of digital systems and their role in communication computing and software Readers will gain insights into computer systems their components software types and operating systems A significant part of this book focuses on communication systems including the internet networking web technologies search engines and social media It explains the impact of e commerce digital marketing and financial tools like UPI AEPS and cryptocurrencies The book also discusses India s digital transformation through Digital India and e Governance initiatives The book covers cybersecurity in detail discussing its threats safety measures hacking and antivirus tools to ensure secure digital interactions It also introduces emerging technologies such as cloud computing IoT big data blockchain robotics AI and 3D printing by showcasing their applications and future potential The book also provides a comprehensive overview of Artificial Intelligence AI explaining its scope machine learning techniques and applications in industries like healthcare finance and education Lastly it provides a structured question bank which serves as a valuable resource for students professionals and technology enthusiasts aiming to excel in the digital era **Oswaal CBSE Sample**

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