



BHARATI VIDYAPEETH'S

INSTITUTE OF COMPUTER APPLICATIONS & MANAGEMENT (BVICAM)

(Affiliated to Guru Gobind Singh Indraprastha University, Approved by AICTE, New Delhi)

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Course Code: MCA-103

Course Name: Computer Networks

Class Test 1

Time: 1 Hour

Max Marks: 20

Attempt all questions. Each question carries four Marks.

1. Explain the role of OSI Model and its functionalities.
2. Explain the use Van Allen Belts in Satellites? Why we need it?
3. What are the different types of propagation in wireless media? Differentiate between parabolic dish antenna and the horn antenna in wireless communication.
4. How can you convert Analog signal to digital signal? Why we need PCM?
5. Give the NRZ-I, Manchester, Differential Manchester, and Bipolar encoding of the digital data: 01010011000111.