D 70325 (Pages : 2) Name.....

Reg. No.....

FIFTH SEMESTER B.TECH. (ENGINEERING) [09 SCHEME] DEGREE EXAMINATION, NOVEMBER 2014

CS/IT/PTCS 09 505—DIGITAL DATA COMMUNICATION

Time : Three Hours Maximum : 70 Marks

Part A

Answer **all** *questions.*
Each question carries 2 *marks.*

1. Define Bandwidth utilization and state its need.
2. Mention the advantages of analog to digital conversion.
3. Compare and contrast a traditional cable network with a hybrid fiber-coaxil network.
4. What are the two approaches to packet switching ?
5. What do you mean by flow control ?

(5 × 2 = 10 marks)

Part B

Answer any **four** *questions.*
Each question carries 5 *marks.*

1. Explain about the transmission impairments.
2. Compare the Amplitude Shift Keying technique and the Frequency Shift Keying technique.
3. Write about the delta modulation technique.
4. Explain about the Datagram Network and mention its advantages.
5. Define framing and explain its types.
6. Explain any one protocol used for the noisy channels.

(4 × 5 = 20 marks)

Part C

Answer **all** *questions.*
Each question carries 10 *marks.*

1. Discuss in detail about the unguided media.

Or

2. Explain in detail about the Spread Spectrum techniques.

Turn over

3. With a neat sketch, explain the Pulse Code Modulation technique in detail.

Or

4. Explain about the transmission modes in detail.

5. With a neat sketch, explain the working of the virtual circuit networks.

Or

6. Discuss in detail about the cable TV networks for data transfer switching.

7. Explain about the protocols used for noiseless channels.

Or

8. With a neat sketch, explain the working of Point to Point Protocol.

(4 × 10 = 40 marks)