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Name.....

Reg. No.....

FIFTH SEMESTER B.TECH. (ENGINEERING) [14 SCHEME] DEGREE EXAMINATION, NOVEMBER 2016

CS 14 505—DIGITAL DATA COMMUNICATION

Time : Three Hours

Maximum : 100 Marks

Part A (Short Questions)

1. Write a brief outline of transmission media.
2. Explain the various network models.
3. List the various applications of Synchronous transmission.
4. Explain the working of block codes and cyclic codes with examples.
5. Explain how a digital transmission is done with an example.
6. Write a note on spread spectrum techniques.
7. Differentiate between circuit switching and packet switching with examples.
8. Write the principle of operation involved in Synchronous protocols.
9. Elaborate on the protocols used for noiseless channels.
10. List the characteristics of the HDLC Protocol.

(8 × 5 = 40 marks)

Part B (Descriptive)

11. Explain in detail about the Addressing techniques in data communications.

Or

12. Discuss in detail about Asynchronous transmission and Synchronous transmission.
13. Explain in detail about Linear block codes with example.

Or

14. Describe about Hamming codes and checksum with examples.
15. Explain the working of the Cable TV networks.

Or

16. Write about the working of the Telephone networks.
17. Discuss in detail about Bit oriented protocol with example.

Or

18. Write in detail about flow control and error control mechanisms with examples.

(4 × 15 = 60 marks)