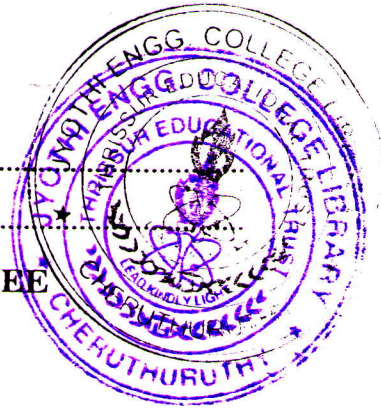


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Name.....

Reg. No.....



**FIFTH SEMESTER B.TECH. (ENGINEERING) DEGREE
EXAMINATION, DECEMBER 2008**

CS 04 502—DIGITAL DATA COMMUNICATION

(2004 Admissions)

Time : Three Hours

Maximum : 100 Marks

- I. (a) Define the terms attenuation and distortion.
(b) What is the difference between a primary and secondary channel ?
(c) Differentiate ASK and FSK.
(d) Explain the functions of network layer.
(e) How are errors classified ? Mention the different error detection methods. Give examples.
(f) Explain the principle of facsimile compression with neat sketch.
(g) Write notes on sliding window Automatic Repeat Request protocol.
(h) Give an account on LAPs.
- (8 × 5 = 40 marks)
2. (a) Explain the components functions of data communication system. (8 marks)
(b) Write notes on different transmission modes. (7 marks)
- Or*
- (c) Explain different topologies. (15 marks)
3. (a) Discuss in detail about DTE-DCE interface. (8 marks)
(b) State and advantages of asynchronous transmission. (7 marks)
- Or*
- (c) Write notes on transmission media. (15 marks)
4. (a) Enumerate and explain the features of dynamic huffman coding. (8 marks)
(b) What is link management and link utilization ? Explain in detail. (7 marks)
- Or*
- (c) Explain in detail about stop and wait and sliding window protocols. (15 marks)

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(10 marks)

5. (a) Explain in detail the HDLC protocol.

(5 marks)

(b) Explain the significance of parity.

Or

(c) Write notes on :

(i) Flow control.

(ii) Z-MODEM.

(iii) Character oriented protocols.

(15 marks)

[4 × 15 = 60 marks]