

OCTOBER 2012

**P/ID 16107/KAG/  
PITD**

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Time : Three hours

Maximum : 75 marks

PART A — (5 × 5 = 25 marks)

Answer ALL questions.

1. (a) What are the components listed under network hardware? Describe their roles.

Or

- (b) Compare wireless transmission with wired one in case of computer networks.

2. (a) Name the conventional errors that are possible to occur in DLL and get corrected? Discuss.

Or

- (b) Explain HDLC.

3. (a) What is medium access sub layer? State its responsibilities.

Or

- (b) What is a satellite network? How does this function?

4. (a) Define congestion in networks. How this can be controlled?

Or

- (b) Explain the architecture of inter network.

5. (a) What are the elements of TCP/IP? Describe.

Or

- (b) Explain the services of electronic mail.

PART B — (5 × 10 = 50 marks)

Answer any FIVE of the following.

6. Describe the theoretical basis for data Communication and describe few transmission media.
7. Explain ATM and cellular radio and Communication satellites.
8. Describe the DLL design issues and a protocol.
9. What is channel allocation? Describe the problems and their corresponding solution.

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10. Explain various static and dynamic routing algorithms and compare.
  11. Describe IPV<sub>4</sub> and IPV<sub>6</sub>.
  12. Explain how a network is made secured.
  13. Write short notes on:
    - (a) DNS
    - (b) WWW and multimedia.
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