

MAY 2015

P/ID 16107/KAG/PITD

Time : Three hours

Maximum : 75 marks

PART A — (5 × 5 = 25 marks)

Answer ALL questions.

1. (a) Why do we require network of computers?
State their applications.

Or

- (b) State and explain the services of narrow and broad band ISDN.

2. (a) List and discuss the functions of data link layer.

Or

- (b) How do you conclude the presence of errors in data transmission?

3. (a) Define and describe channels allocation problems.

Or

- (b) Highlight the standards in IEEE 802.

4. (a) Describe few congestion forming situations.

Or

(b) Write the frames and headers in IPV6.

5. (a) What are the transport services, supported in networks?

Or

(b) Explain the advantages of e-mail services.

PART B — (5 × 10 = 50 marks)

Answer any FIVE questions.

6. Describe the theoretical foundations of data communication.

7. Discuss ATM and cellular communication services.

8. Discuss the implementation issues on any two data link protocols.

9. Explain the principle of MAC and sub layers.

10. Briefly review any three routing strategies and compare.

11. Explain the internetworking principles and architecture.

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12. Explain TCP/IP protocol and list the services.
 13. Write short notes on :
 - (a) DNS
 - (b) WWW and
 - (c) MAN.
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