

Total No. of printed pages = 3

Co-504/CCN/5th Sem/M/2013

## COMPUTER COMMUNICATION AND NETWORKING

Full Marks – 70

Pass Marks – 28

Time – Three hours

The figures in the margin indicate full marks  
for the questions.

Answer any *five* questions.

1. (a) Name the different layers of O.S.I model. 2
- (b) Define SAP, IDU, PDU. 6
- (c) Distinguish between connection less services  
and connection oriented services. 6
2. (a) Name the different types of transmission  
media available. Explain the working principle  
of fibre optics or baseband coaxial cable. 8

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- (b) Name the different types of wireless transmission. Discuss radio transmission in brief. Explain why infra red cannot be used outdoor. 6
3. (a) Write a brief note on : 9
- (i) modem
  - (ii) circuit switching
  - (iii) packet switching.
- (b) What is the principle of slotted ALOHA ? 5
4. (a) What is framing ? How errors can be handled in a network ? Discuss briefly. 9
- (b) Write a brief note on collision free protocol. 5
5. (a) What do you mean by congestion ? How congestion can be controlled ? 8
- (b) Discuss ponting algorithm briefly. 6
6. (a) How does transport protocol differ from data link protocol ? 7
- (b) Write a brief note on Email. 7

7. Write short notes on any *two* :  $7 \times 2 = 14$

(i) Token Ring

(ii) Bridges

(iii) Client Server model

(iv) Firewall.