4068

Com. Communication Network

(New) (1240)

P. Pages : 2

Time : Three Hours　　　　　　　　　　　　　　　　**Max. Marks : 100**

Instructions to Candidates :
1. Do not write anything on question paper except Seat No.
2. Answer sheet should be written with blue ink only. Graph or diagram should be drawn with the same pen being used for writing paper or black HB pencil.
3. Students should note, no supplement will be provided.
4. Solve **any two** sub questions from each unit.
5. Figures to the right indicate full marks.

UNIT - I

1. a) With the help of diagram, explain TCP / IP model.　　**10**

b) Explain Broadband ISDN with architecture.　　**10**

c) Describe various wired media.　　**10**

UNIT - II

2. a) Discuss design issues related to data link layer.　　**10**

b) Explain pure ALOHA and slotted ALOHA.　　**10**

c) With the help of neat diagram explain 'Selective Repeat ARQ'.　　**10**

UNIT - III

3. a) Describe 'shortest path' Routing Algorithm.　　**10**

b) Explain congestion control in Datagram subnet.　　**10**

c) Compare virtual circuit and datagram subnet.　　**10**

UNIT - IV

4. a) Explain how IP addresses and physical addresses are mapped in Network layer ? Which are the related protocols for them. **10**

b) Draw the format of IPV$_4$ datagram and explain in brief all the fields in it. **10**

c) Describe connection oriented and connectionless internetworking. **10**

UNIT - V

5. a) Draw and explain TCP header format in detail. **10**

b) How SNMP is used to access management information ? Explain in brief. **10**

c) Write note on Domain Name system. **10**

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