

Seat No. : _____

DF-121

December-2013

5 Years M.Sc. (CA & IT) Integrated (K.S.) 5th Sem. M.Sc.

Wide Area Network

Time : 3 Hours]

[Max. Marks : 100

1. (A) Fill up the following blanks : **10**
- (1) _____ routing algorithm is use for reducing routing table entry.
 - (2) BOOTP is working on _____ layer.
 - (3) The coverage area of Satellite is called _____.
 - (4) _____ protocol is mapping logical address to physical address.
 - (5) _____ protocol is doing error reporting at network layer.
 - (6) _____ Technique is allowing busty traffic at regulated variable rate.
 - (7) _____ is 802.5 Network.
 - (8) _____ protocol is use for Resource Reservation.
 - (9) Circuit switching network is working on _____ layer.
 - (10) _____ Number of host we get for Subnet mask 255.255.255.64
- (B) Write the answer of following questions : (any **five**) **10**
- (1) What is Hand off ?
 - (2) What is Proxy Firewall ?
 - (3) What is Bit error Rate ?
 - (4) Explain RARP.
 - (5) What is BOOTP relay agent ?
 - (6) What is FDDI ?
2. (A) Write the answer of following questions : (any **three**) **18**
- (1) What is Satellite Communication ? Discuss VSAT network in detail.
 - (2) What is Connection Oriented Protocol ? Explain TCP in detail.
 - (3) What is Congestion Control ? Explain different Congestion Control Technique.
 - (4) What is Routing Algorithm ? Explain any one Dynamic Routing Algorithm in detail.
- (B) ROMING **2**

3. (A) Explain the following : (any **three**) **18**
- (1) ICMP
 - (2) DHCP
 - (3) RSVP
 - (4) FIREWALL
- (B) Domain Name System. **2**
4. (A) Explain the following in detail : (any **three**) **18**
- (1) ATM
 - (2) FRAME RELAY
 - (3) ISDN
 - (4) UDP
- (B) SNMP **2**
5. (A) Find the solution of following subnetting problem. **10**
- (1) Your company would like to break the Class B private IP address range 172.16.0.0 into as many Subnets as possible, provided that they can get at least 1900 clients per subnet. List first 5 subnets.
 - (2) A service provider has given you the Class C network range 209.50.1.0. Your company must break the network into 10 separate subnets. List all subnet.
- (B) Explain the following in detail : (any **four**) **10**
- (1) WDM
 - (2) Load Shedding
 - (3) Frequency Reuse
 - (4) Hierarchical Routing
 - (5) Tunneling
-