End term Examination

Paper code :MCA309   **subject :Advanced computer network**
Paper id:44309

Time:3 hour   **maximum marks:60**

Note: Attempt 5 question in all Q1 is compulsory.

Q1   **(3X4=12)**
(a)Differentiate among LAN,WAN and man
(b)Define IPSEC
(c) differentiate between ARP and RARP
(d) differentiate between Virtual private network and Intranet
Q2
(a)List 2 advantages and 2 disadvantages of having
international standard for net work protocol.   **(6)**
(b)List 2 way in which OSI reference model and TCP/IP reference
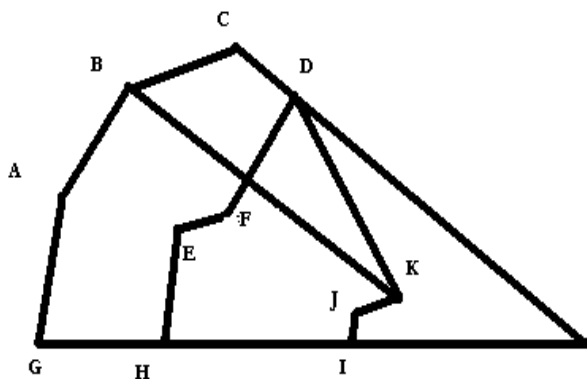**model are the same. Also list 2 way in which they differ**   **(6)**
Q3
(a)Data link protocols always put CRC in trailer rather then in
header. Why?   **(4)**
(b)Explain various cell format available in ATM network in detail.
(8)
Q4
(a)Compute multicast spanning tree for router 'C' in the following
subnet for a group with member at router A,B,C,D,E,F,I and K.(12)

Q5

(a)Explain the Architecture and Service provided by electronic mail.   (6)

(b) Explain the Architecture and Service provided by SNMP.   (6)

Q6

(a)Discuss the situation when UDP is preferred over TCP   (5)

(b)what do you understand by Maximum Segment size of TCP header and describe Reset Segment for TCP?   (7)

Q7

(a)List difference between IPv4 and IPv6 protocol.   (6)

(b)Explain sliding window protocol usage and discuss one bit sliding window protocol.   (6)

Q8 Write short not on any three   (3X4==12)

   (a) Packet filtering firewall

   (b) DNS

   (c) ICMP

   (d) Aloha protocol