

Scheme – I

Sample Question Paper

Program Name : Diploma in Computer Engineering Group
Program Code : CO / CM/ IF / CW
Semester : Fifth
Course Title : Advanced Computer Network
Marks : 70

22520

Time: 3 Hrs.

Instructions:

- (1) All questions are compulsory.
- (2) Illustrate your answers with neat sketches wherever necessary.
- (3) Figures to the right indicate full marks.
- (4) Assume suitable data if necessary.
- (5) Preferably, write the answers in sequential order.

Q.1) Attempt any FIVE of the following.

10 Marks

- a) Draw and label sketch of IPv6 packet format.
- b) State the importance of IPv6 over IPv4?
- c) Distinguish between SMTP and POP3 protocols.
- d) State the use of six flags in TCP header.
- e) Explain the concept of connection oriented service.
- f) State the use of SSH.
- g) State the concept of fragmentation in IPv4?

Q.2) Attempt any THREE of the following.

12 Marks

- a) Describe flow control under SCTP.
- b) Explain ICMP protocol? Describe the header format of ICMP.
- c) Describe SMTP with suitable diagram.
- d) For the block of IPv4 addresses given below build Subnet Mask, Broadcast Address and Number of Hosts possible.
 - i. 10.0.199.237/22
 - ii. 192.168.14.87/26

Q.3) Attempt any THREE of the following.

12 Marks

- a) Describe the path vector routing algorithm.
- b) Distinguish between RIP and OSPF routing protocol.
- c) Describe the Architecture of E-mail system using four scenario.
- d) Use Bellman-Fort algorithm to find the shortest distance for all nodes in the graph.

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CL Gary



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