END TERM EXAMINATION
THIRD/NINTH SEMESTER [MBA] DEC.-JAN 2012

Paper Code: MS 237/BMS 537
Subject: Network Applications and Management

Time: 3 Hours
Maximum Marks: 60

Note: Q. No. 1 is compulsory. Attempt any four from the rest of the questions.

Q1. Attempt any five of the following: (4x5=20)
   (a) What are the components of data communications?
   (b) State the advantages and disadvantages of star topology.
   (c) What are the factors that affect performance of LAN?
   (d) Explain how FTP works.
   (e) Which devices intend the collision domain? Why?
   (f) What is a subnet mask of class B networks? Why is subnet mask used?

Q2. Discuss the applications of networks in finance, marketing and human resources. (10)

Q3. What are the advantages of using a layered model to describe network functionality? Discuss the role of each layer in the OSI network model. (10)

Q4. (a) Explain how TCP provides reliable communication. (4)
(b) What are the services provided by http, Telnet, DNS and SMTP at application layer? (6)

Q5. Network administrator of an organization has decided to create 14 usable subnets of the network 28.0.0.0. Answer the following questions. (2.5x4=10)
   (a) What will be the subnet mask of the subnetted network?
   (b) What will be the address of the first, fourth and seventh subnet network address?
   (c) How many total usable hosts can be attached to the network?
   (d) Find the subnet network address of the host 28.32.0.3.

Q6. (a) How does Ethernet work? Explain CSMA/CO. (6)
(b) Explain the frame structure of IEEE 802.3. (4)

Q7. An organization has 10 departments, each department has 20 computers. Organization wants to network all the computers and also wants internet connectivity. Being the network administrator of this organization, suggest the design of network architecture i.e. list the equipments required, topology and media requirements to establish the network. Justify your design by stating the advantages of chosen equipments, media and topologies. (10)

Q8. (a) What are the functions of routed and routing protocols? Discuss the features of routing information protocol (RIP). (6)
(b) Discuss the possible security threat to a network. (4)

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