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Total Number of Pages: 02

MBA
15MNG403D

**4th Semester Regular Examination – 2016-17
COMPUTER NETWORK AND SECURITY(CNS)**

BRANCH(S): MBA

Time: 3 Hours

Max Marks: 100

Q.CODE:Z575

**Answer Question No.1 & 2 which are compulsory and any four from the rest.
The figures in the right hand margin indicate marks.**

Part – A (Answer All the questions)

- Q1 **Answer the following questions:** (2 x 10)
- State the responsibilities of the data link layer
 - What is Baud rate?
 - What is the maximum length of a datagram?
 - What is a stub network?
 - How many connections are required for 10 nodes in a mesh topology?
 - What is multiplexing?
 - Write the token ring frame format of 802.5.
 - Differentiate between static and dynamic routing.
 - What is MPLS and what does it stand for?
 - What is bridge?
- Q2 Answer the questions.(Fill in the blanks with appropriate answer) (2 x 10)
- _____ data communication method is used to transmit the data over a serial communication link?
 - A _____ connection provides a dedicated link between two devices.
 - A tree topology is a variation of a _____ topology.
 - The OSI model consists of _____ layers.
 - Switch is a Device of _____ Layer of OSI Model. Data Link Layer
 - The _____ is the physical path over which a message travels.
 - The _____ layer lies between the network layer and the session layer.
 - Dialog control is a function of the _____ layer.
 - The shortest path in routing can refer to _____.
 - If there are five routers and six networks in an internetwork, _____ number of link state databases are there?

Part – B (Answer any four questions)

- Q3 How the various layers of OSI model exchange information to establish a connection in communication network? Illustrate with the help of suitable diagram. (15)
- Q4 a) Briefly discuss how does a Token Ring LAN operate? (7.5)
b) Distinguish between Wi-Fi and Wi-Max. (7.5)
- Q5 Discuss the different types of topologies with their performance indicator. Also draw and explain a hybrid topology with star as backbone and four mesh network. (15)
- Q6 a) What is Cryptography? Illustrate the concept of Public and Private Keys to be used for Cryptography Mechanism. (10)
b) Write brief notes on Bluetooth. (5)
- Q7 a) Write a short note on Client Server Computing. (7.5)
b) Explain how the packets are transmitted by using TCP approach. Explain in detail with the neat sketch. (7.5)
- Q8 Write Short Notes (Any Two) (7.5 x 2)
a) IP addressing
b) Digital Signature
c) Distributed Data base
d) GPRS