Roll No. | | | | | | | | | | | | |

Total No. of Pages : 02

Total No. of Questions : 15

MBA (2015 to 2017) (Sem.–4)

INTRODUCTION TO COMPUTER NETWORKS

Subject Code : MBA-990

M.Code : 71404

Time : 3 Hrs. Max. Marks : 60

INSTRUCTIONS TO CANDIDATES :

1. **SECTION-A contains SIX questions carrying FIVE marks each and students has to attempt any FOUR questions.**
2. **SECTION-B consists of FOUR Subsections : Units-I, II, III & IV. Each Subsection contains TWO questions each carrying EIGHT marks each and student has to attempt any ONE question from each Subsection.**
3. **SECTION-C is COMPULSORY carrying EIGHT marks.**

SECTION-A

1. What is the concept of a layer in Network Model and why do we need layering?
2. Compare Circuit Switching, Message Switching and Packet Switching.
3. What is error Control at data link layer? Explain Checksum method for error control.
4. Explain the differences between interior and exterior routing protocols.
5. What is DNS? How it Works?
6. Explain the differences between public and private key cryptography.

SECTION-B

UNIT-I

7. Explain Communication process between two ends using OSI Reference Model.
8. Distinguish between LAN, MAN and WAN.

UNIT-II

9. Explain Cyclic Redundancy Check (CRC) method. Show calculation for CRC for string 1011000 and predetermined divisor is 1011.

10. Explain Sliding window flow control protocol at data link layer.

UNIT-III

11. What is class full model of IP addressing? Explain different classes used in IPV4.

12. Explain different strategies like Fixed Routing, Adaptive Routing and Flooding.

UNIT-IV

13. Explain the concept of digital signatures and how they provide the security.

14. Discuss the role of a hub, switch, router, and repeater in configuring a network.

SECTION-C

15. Write briefly / Fill in the blank / True / False :

a) List two application layer protocol.

b) What is SSL?

c) Full form of ARP.

d) IP address contains …… bits and port address contains …… bits.

e) MAC Address is a physical address. (T/F)

f) Telnet is a protocol used for file transfer. (T/F)

g) Firewall acts as Intrusion Prevention System. (T/F)

h) TCP is faster than UDP. (T/F)

NOTE : Disclosure of identity by writing mobile number or making passing request on any page of Answer sheet will lead to UMC case against the Student.