Printed Pages:01 **Sub Code:MAMIT07**

Paper Id: 193258 **Roll No.** | | | | | | | | | | |

MAM

(SEM-X) THEORY EXAMINATION 2018-19

COMPUTER NETWORK & SECURITY

Time: 3 Hours ***Total Marks: 100***

Note: 1. Attempt all Sections. If require any missing data; then choose suitably.

SECTION A

1. Attempt *all* questions in brief. 2 x 10 = 20

a What is the difference between LAN and WAN?
b Write about Hamming distance.
c Write about throughput.
d What is gigabit Ethernet?
e What is the basic principle of Flow Control?
f. What is checksum?
g Write about digital signature?
h Give the main functions of Transport Layer.
i. What is Threat?
j. Define Data Encryption standard.

SECTION B

2. Attempt any *three* of the following: 10 x 3 = 30

a What is transmission medium? What are the different types of transmission medium?
b What is Network? Explain different types of Networks.
c Briefly explain Error Detection ethods?
d Classify the static and dynamic routing algorithms? Explain the basic concept of flooding.
e Differentiate between Symmetric Key Encryption and Asymmetric Key Encryption.

SECTION C

3. Attempt any *one* part of the following: 10 x 1 = 10

(a) Write short notes on i) STAR , ii)BUS iii)RING iv) MESH topology
(b) Differentiate OSI reference model with the TCP/IP reference model

4. Attempt any *one* part of the following: 10 x 1 = 10

(a) Explain about HDLC Configurations, Transfer Modes and different types of frames.
(b) Define Switching. What are the different types of Switching Techniques?

5. Attempt any *one* part of the following: 10 x 1 = 10

(a) Write short notes on i) WDM ii) TDM iii) PPP
(b) Define controlled access and list three protocols in this category.

6. Attempt any *one* part of the following: 10 x 1 = 10

(a) What is the responsibility Network layer in the TCP/IP protocol
(b) Write short notes on
i. Stop-and-Wait ii. Go-Back-N

7. Attempt any *one* part of the following: 10 x 1 = 10

(a) What are the five basic functions supported in e-mail systems? Explain
(b) What are the various threats to Internet?

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