

23545

M.Tech. 1st Semester
Examination, December-2018
CYBER FORENSICS AND INFORMATION SECURITY
Paper- MTCF-105
Advanced Computer Networks

Time allowed : 3 hours] [Maximum marks : 100

Note: Attempt five questions in all selecting one from each unit. Question No. 1 is Compulsory.

1. Explain the following:
 - (i) Ethernet
 - (ii) Logical Addressing
 - (iii) Mobile IP
 - (iv) VPN 20

Unit-I

2. Describe in detail about 7-layer OSI model with proper diagram. 20
3. Explain the following:
 - (i) Error Detection and Error-Correction Techniques.
 - (ii) Least cost path and non-least cost path algorithms. 20

Unit-II

4. Describe IPv4 and IPv6. Also explain Transition from IPv4 to IPv6. 20

23545-P-2-Q-9 (18)

[P.T.O.]

5. Explain the following: 20
- (i) DNS
 - (ii) P2P file Sharing

Unit-III

6. Define Wireless Networks. Explain in detail about Infrastructure of Wireless Networks. 20
7. Define Optical Network and explain the following. 20
- (i) Optical Routers
 - (ii) Basic Optical Networking Devices.

Unit-IV

8. Explain the following: 20
- (i) Multi Protocol Label switching.
 - (ii) IP Telephony.
9. Describe the following. 20
- (i) Wireless Sensor Networks.
 - (ii) Clustering Protocols.