

**M.Tech. 1st Semester Cyber Forensics and
Information Security Examination,
December-2017**

ADVANCED COMPUTER NETWORKS

Paper-MTCF-105

Time allowed : 3 hours] [Maximum marks : 100

*Note : Attempt five questions in all, selecting one question
from each unit. Question No. 1 is compulsory.*

1. Explain the following : 20
- (a) Internet Protocol
 - (b) P2P file Sharing
 - (c) Optical Router
 - (d) VOIP

Unit-I

2. (a) Explain the 5-Layer TCP/IP model with proper diagram. 10
- (b) Explain in brief about modems and Internet Access Devices. 10
3. Describe the following : 20
- (a) Interdomain Routing Protocols
 - (b) Intradomain Routing Protocols
 - (c) Congestion Control at Network Layer

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Unit-II

4. Explain the following : 20
(a) Transmission Control Protocol
(b) IPv6 Addressess
5. Describe the following : 20
(a) Mobile Transport Protocols
(b) E-mail

Unit-III

6. Describe the following : 20
(a) Wireless Networks
(b) Cellular Networks
7. Explain the following : 20
(a) Wavelength allocation in networks
(b) Large Scale Optical Switches

Unit-IV

8. (a) What do you mean by Real Time Media Transport Protocols ? Explain. 10
(b) Give a brief description about VoIP Signaling Protocols. 10
9. What do you mean by Routing in Ad-hoc Networks ? Also explain Routing Protocols for Adhoc Networks. 20