12/12/11

BE ETRx VIII (ReV)
Advanced Networking Technologies

IInd/ half-11-S.G. 63

Con.6566-11.

(REVISED COURSE)

MP-5179

(3 Hours) [Total Marks : 100

N.B.: (1) Question No. **1** is **compulsory**.
     (2) Solve any **four** from remaining **six** questions.
     (3) **Figures** to the **right** indicate **full** marks.

1. (a) What are the functions of Network Layer ?   5
   (b) With help of a suitable sketch explain Optical Networking in brief.   5
   (c) Explain frame relay in brief.   5
   (d) Discuss the need of Network Security.   5

2. (a) Explain in detail Repeaters, Hubs, Routers and Gateways.   10
   (b) Explain in detail ATM Adaptation Layer (AAL).   10

3. (a) What do you mean by Network Layer Design ? Explain.   10
   (b) Discuss the various fields in IPv4 frame.   10

4. (a) Describe Network Security safeguard in detail.   10
   (b) With respect to Network Management explain the following :—   10
       (i) Documentation
       (ii) OAM & P.

5. (a) Describe the various wireless LAN technologies.   10
   (b) Explain in brief ICMP.   5
   (c) With the help of a neat sketch explain DWDM.   5

6. (a) Explain ATM cell format in brief.   5
   (b) Compare and contrast Ubiquitous and Hierarchical access.   10
   (c) Explain in brief Layer 7 filtering.   5

7. Write short notes on following :—   20
       (a) Subnetting
       (b) Remote Monitoring
       (c) Congestion Control
       (d) VoFR.