

- (f) There are 4 layers in TCP/IP. 2
(i) True (ii) False
- (g) Mnemonics are used in high level language. 2
(i) True (ii) False
2. (a) Convert the following nos. from decimal to 7
octal and then to binary. Compare the
binary nos. obtained with the binary nos.
obtained directly from the decimal nos.
(i) 375 (ii) 249
- (b) Explain different complementing schemes 7
and then compare them.
3. (a) What is the difference between system 7
software and application software ?
- (b) Why programs written in high level 7
language or assembly language are
translated before execution ?
4. (a) What are the major functions of network 7
operating system ?
- (b) What are the advantages and disadvantages 7
of time sharing system ?
5. (a) What do you mean by network topology ? 7
Explain the following in brief.
(i) star topology
(ii) tree topology
(iii) ring topology

- (b) What is meant by FTP service ? Under what circumstances would you like to use FTP ? 7
6. (a) Explain how computers are being used in banking and financial institutions ? 7
- (b) What are the application of computers in medical science ? 7
7. (a) What are auxiliary storage devices ? Can a hard disk be categorized as an auxiliary storage device ? What are the performance parameter of HDD ? 7
- (b) What do you mean by computer generations. List the major advances in each generation in the development of computer technology. 7
8. Write short notes on : (*any four*) 3.5x4=14
- (a) Data communication equipment
- (b) Classification of computers
- (c) Internet and its application
- (d) Computer application for weather forecasting
- (e) Network protocol
- (f) Operating systems
-