

Enrollment No:-_____

Exam Seat No:-_____

C.U.SHAH UNIVERSITY

Summer-2015

Subject Code:5CS03CNS1

Subject Name: Computer Networks & Security

Course Name:M.Sc. (IT)

Date: 8/5/2015

Semester:III

Marks : 70

Time:02:30 TO 05:30

Instructions:

- 1) Attempt all Questions of both sections in same answer book/Supplementary.
- 2) Use of Programmable calculator & any other electronic instrument prohibited.
- 3) Instructions written on main answer book are strictly to be obeyed.
- 4) Draw neat diagrams & figures (if necessary) at right places.
- 5) Assume suitable & perfect data if needed.

SECTION-I

Q1 Answer the following questions (07)

1. Define Network.
2. Give full form of SMTP.
3. What is Logical address?
4. What is Intra network?
5. What is network topology?
6. What is transmission medium?
7. what is signal? List its types.

Q2. Attempt the following questions (14)

1. Explain OSI reference model including each layers. (07)
2. What is multiplexing? Explain TDM with the help of diagram. (07)

OR

Q2 Attempt the following questions (14)

1. Explain TCP/IP reference model having each layers. (07)
2. Explain CSMA/CD protocol in detail. (07)

Q3 Attempt the following questions (14)

1. Explain DES in with the help of figure. (7)
2. Differentiate guided and unguided transmission media. Explain different types of guided transmission medium.

OR

Q3 Attempt the following questions (14)

1. What is digital signature? Explain types in detail.
2. Describe shortest path routing and flooding.



SECTION-II

- Q4. Answer the following questions (07)
1. Differentiate IPV4 and IPV6. (02)
 2. Difference between ICMP and IGMP. (02)
 3. what is PPP? What is function of it? (02)
 4. Define Inter networking. (01)
- Q5. Attempt the following questions (14)
1. What is IP address? Explain IPV6 with figure. (05)
 2. Explain wireless LAN in detail. (05)
 3. What is Ethernet? Describe. (04)
- OR
- Q5 Attempt the following questions (14)
4. What is ATM? Explain ATM cell structure (05)
 1. Explain Polling and token passing. (05)
 2. Describe Public Switched Telephone Network. (04)
- Q6 Attempt the following questions (14)
1. What is congestion control? Explain open and close loop congestion controls. (14)
 1. Explain circuit switching and packet switching.
- OR
- Q6 Attempt the following questions (14)
1. Explain RSA algorithm in detail.
 2. Explain DNS . Explain remote login process.

