C.U.SHAH UNIVERSITY Summer Examination-2017

_

Subject Name: Next Generation Networks

| | Subject | Code: 4TE08NGN1 | | Branch: B.Tech (CE |) | | | |
|-------------|--|---|---------------|---------------------------------|------------------|--|--|--|
| | Semester | :: 8 Date: 18/ | 04/2017 | Time: 02:30 To 05:3 | 0 Marks: 70 | | | |
| | Instructio | ons: | | | | | | |
| | (1) U | Jse of Programmable ca | lculator & a | ny other electronic instrument | t is prohibited. | | | |
| | |) Instructions written on main answer book are strictly to be obeyed. | | | | | | |
| | (3) Draw neat diagrams and figures (if necessary) at right places. | | | | | | | |
| | (4) A | Assume suitable data if r | needed. | | | | | |
| | | | | | | | | |
| Q-1 | L | Attempt the following | - | | (14) | | | |
| | a) | • | | port layers and user support la | ayers? | | | |
| | | a) session layer | b) data li | • | | | | |
| | • \ | c) transport layer | d) networ | | | | | |
| | b) | Which address identifi | | | | | | |
| | | a) physical addressc) port address | b) logical | ic address | | | | |
| | c) | What is the objective of | | ic address | | | | |
| | d) | How Many bytes is an | | ss? | | | | |
| | e) | What is Subnet Mask? | | | | | | |
| | f) | What is public IP addr | | | | | | |
| | g) | Define Topology. | | | | | | |
| | h) | What is the full form of | f DHCP? | | | | | |
| | i) | List the Application of | Network. | | | | | |
| | j) | What is the Use of ipc | - | ng –t? | | | | |
| | k) | Define Physical Addre | | | | | | |
| | l) | List out the examples of | of Connection | on Oriented Service. | | | | |
| | - | What is FQDN? | 1 10 4 | 1 | | | | |
| | n) | Difference between Hu | ib and Swite | ch. | | | | |
| Atte | empt any f | our questions from Q- | 2 to Q-8 | | | | | |
| Q-2 |) | Attempt all questions | | | (14) | | | |
| Q -4 | a) | | | ication Layer Protocol in TCl | | | | |
| | b) | | | N), Point-to-Point WAN, Sw | | | | |
| | | | | | | | | |
| | | | | | | | | |

Q-3 Attempt all questions

(14)

a) If Sender assign IP Address as 169.143.139.43 and subnet mask as 221.240.12.0



| | b) | Find Class , Net id, Host Id, Default Subnet Mask and Sub Network Address. What is Bootstrap Header? Explain BootStrap with suitable diagram. | |
|-----|----------|---|------|
| Q-4 | | Attempt all questions | (14) |
| | a) | On which algorithms OSPF depends? What is the principle behind it? What are different neighbour states in OSPF? | |
| | b) | Explain Multicast Distance Vector Routing with examples. | |
| Q-5 | a) b) | Attempt all questions Explain BGP with Suitable examples. Using CRC generator Sender send Data word as x7+x5+X2+1 and divisior as x3+x2+1.find out Error. | (14) |
| Q-6 | | Attempt all questions | (14) |
| | a) b) | Explain TCP Header with Suitable diagram. What is the Purpose of ICMP? Explain Different Error Message of ICMP. | |
| ~ - | U) | | |
| Q-7 | a) | Attempt all questions Explain UDP Client Server Procedure with suitable diagram. | (14) |
| | a) b) | Difference between IPV4 and IPV6 and define Transition from IPv4 to Ipv6 | |
| | ~) | Addressing. | |
| Q-8 | | Attempt all questions | (14) |
| | a) | Define Socket. Explain Socket Services. | |

b) Define Daemon Process. Explain Syslog Procedure with suitable diagram.

