

Reg. No:

--	--	--	--	--	--	--	--	--	--

SIDDHARTH INSTITUTE OF ENGINEERING & TECHNOLOGY:: PUTTUR
(AUTONOMOUS)

B.Tech IV Year I Semester Supplementary Examinations February-2022

INTERNETWORKING WITH TCP/IP

(Computer Science & Information Technology)

Time: 3 hours

Max. Marks: 60

(Answer all Five Units 5 x 12 = 60 Marks)

UNIT-I

- 1 a Describe the significance of each layer in the TCP/IP protocol suite. **6M**
b Specify and explain the types of options in IPV4 header. **6M**

OR

- 2 a Illustrate the significance of sub-network mask. **6M**
b Discuss how classless addressing address the problem of address depletion. **6M**

UNIT-II

- 3 a What is Address mapping? Explain. **4M**
b With neat diagram explain the four different cases in which the services of ARP can be used. **8M**

OR

- 4 a Illustrate Packet Format of ICMP. **6M**
b Write a note on ICMP Query messages. **6M**

UNIT-III

- 5 a Explain with an example the concept of link state routing. **6M**
b Describe the five different types of OSPF packets. **6M**

OR

- 6 a What is Distance vector routing? Give an example. **8M**
b Discuss about BGP. **4M**

UNIT-IV

- 7 a Describe the TCP features in detail. **7M**
b How do you calculate the checksum of a UDP use datagram? **5M**

OR

- 8 a Explain the general services provided by UDP. **6M**
b Write the procedure for connection establishment in TCP using three-way handshaking. **6M**

UNIT-V

- 9 a Explain the transition from IPv4 to IPv6. **6M**
b Describe the four TCP timers. **6M**

OR

- 10 a What is Error control in TCP? Explain. **8M**
b Write a note on Information messages. **4M**

*** END ***