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SIDDHARTH INSTITUTE OF ENGINEERING & TECHNOLOGY:: PUTTUR**(AUTONOMOUS)****B.Tech IV Year I Semester Supplementary Examinations August-2021****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 Compare between OSI and TCP/IP protocol suite. **6M**
 b Discuss the four levels of addresses used in an internet employing the TCP/IP protocols. **6M**

OR

- 2 a List and explain the various types of options in IPV4 header. **6M**
 b What are the Addressing types? Explain with an example **6M**

UNIT-II

- 3 a With neat diagrams explain the four different cases in which the services of ARP can be used. **8M**
 b Illustrate the message types in ICMPv4. **4M**

OR

- 4 a Discuss the Internet Control Message Protocol. **7M**
 b Explain in detail about Debugging tools. **5M**

UNIT-III

- 5 a What are the types of BGP messages? Explain. **6M**
 b List the considerations used by RIP while directly implementing distance vector routing. **6M**

OR

- 6 a With an example explain distance vector routing algorithm. **5M**
 b Describe the types of links defined in OSPF. **7M**

UNIT-IV

- 7 a Explain connection establishment in TCP using three-way handshaking. **6M**
 b Sketch and explain about TCP segment. **6M**

OR

- 8 a Give the format of UDP header and explain the significance of each field. **6M**
 b What is a TCP Connection? Explain in detail. **6M**

UNIT-V

- 9 a Explain Silly window syndrome. Give the two solutions to prevent it. **6M**
 b Make a comparison between IPV4 and IPV6 headers. **6M**

OR

- 10 a Discuss about the options. Explain with format. **6M**
 b List and discuss the five components of TCP Package and their interactions. **6M**

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