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

B.Tech IV Year I Semester Regular Examinations Feb-2021

INTERNET WORKING 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 Explain about the purpose of each layer in the OSI Model. 6M
b Illustrate the significance of sub-network mask. 6M

OR

- 2 a Discuss about Logical and Physical addresses. 6M
b Explain the fields related to fragmentation and reassembly of an IP datagram. 6M

UNIT-II

- 3 a List and describe the five types of error reporting messages in ICMPv4. 8M
b With a neat diagram explain the significance of ATMARF packet. 4M

OR

- 4 a How to identify Physical address from Logical Address? Illustrate details. 7M
b Explain the various tools of links used in the internet for debugging. 5M

UNIT-III

- 5 a Describe the five different types of OSPF packets. 6M
b Explain with an example the two-node loop problem. Also give the solutions to this problem. 6M

OR

- 6 a What is Distance Vector Routing? Explain with an example 5M
b Explain with an example about Intra- and Inter- domain Routing. 7M

UNIT-IV

- 7 a Give the format of TCP segment header and explain the significance of each field 6M
b With an example explain how to calculate checksum of a UDP use datagram. 6M

OR

- 8 a Describe the general services provided by UDP. 6M
b What is UDP? Explain UDP Packet in detail. 6M

UNIT-V

- 9 a Explain how TCP provider reliability using errors control. 6M
b Describe the six types of extension headers in IPV6 header. 6M

OR

- 10 a Discuss error messages in ICMPV6 and compare and contrast them with the error messages in ICMPV4. 6M
b Elaborate the significance of each field in the format of the IPV6 base header. 6M

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