Reg. No: ☐☐☐☐☐☐☐☐☐☐

SIDDHARTH INSTITUTE OF ENGINEERING & TECHNOLOGY:: PUTTUR
(AUTONOMOUS)
B.Tech III Year I Semester Supplementary Examinations December-2021
COMPUTER NETWORKS
(Computer Science & Information Technology)

Time: 3 hours   Max. Marks: 60

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

UNIT-I

1	List and Explain major components of an Optical Communication System.	12M

OR

2	a	Compare Connection oriented and connectionless service.	6M
	b	Explain the functions and protocols and services of each layer?	6M

UNIT-II

3	Explain MAC sub layer protocol and frame structure of IEEE 802.11.	12M

OR

4	a	Discuss stop and wait protocol.	6M
	b	Explain about the Carrier Sense Multiple Access Protocols.	6M

UNIT-III

5	a	State the major difference between distance vector routing and link state routing.	6M
	b	Explain packet switching in detail.	6M

OR

6	Explain in detail congestion control algorithms	12M

UNIT-IV

7	Enumerate the mechanism of three way handshake protocol for TCP.	12M

OR

8	a	Explain the duties of transport layer.	6M
	b	Write short notes on performance issues of transport layer.	6M

UNIT-V

9	a	Discuss the File transfer Protocol (FTP) with a neat diagram.	6M
	b	Explain briefly simple network management protocol.	6M

OR

10	a	List and discuss the types of DNS records.	6M
	b	Discuss in detail about SMTP.	6M

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