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

**B.Tech III Year II Semester Regular Examinations May 2019**

**COMPUTER NETWORKS**

(Computer Science & Engineering)

Time: 3 hours

Max. Marks: 60

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

**UNIT-I**

- 1 What are the major components of an optical communication system? Discuss. 12M

**OR**

- 2 Explain the following:-  
(a) LAN (b) MAN (c) WAN (d) ARPANET 12M

**UNIT-II**

- 3 a Write short notes on Go back NARQ. 6M

- b Write short note on Selective repeat ARQ. 6M

**OR**

- 4 a Explain the various error detection and correction Mechanisms used in computer network. 8M

- b Briefly discuss about data link layer design issues? 4M

**UNIT-III**

- 5 a Explain distance vector routing in detail. 7M

- b Explain leaky bucket and token bucket algorithm. 5M

**OR**

- 6 a Explain about the Shortest Path Algorithm. 7M

- b Comparison of Virtual-Circuit and Data gram Networks. 5M

**UNIT-IV**

- 7 a Explain UDP & TCP. 7M

- b Explain the internet transport protocols. 5M

**OR**

- 8 a Discuss the strategies TCP uses to avoid congestion. 6M

- b Explain the duties of transport layer. 6M

**UNIT-V**

- 9 a Discuss the features of HTTP. 6M

- b Explain how security is provided in interact operations in detail. 6M

**OR**

- 10 Explain about Application layer in details. 12M

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