

Total Pages—4

V—Sem/CSE/IT/2015(W)

(2)

COMPUTER NETWORK AND DATA COMMUNICATION

(Code : CST-503)

Full Marks : 70

Time : 3 hours

Answer any five questions

Figures in the right-hand margin indicate marks

- 1. (a) What is data communication? Identify the five component of data communication. 2
- (b) What do you mean by data flow? What is the difference between half duplex and full duplex transmission mode? 5
- (c) Discuss different layers of OSI model. How OSI model related to ISO model? 7
- 2. (a) What does the shanon capacity have to do with communication? 2

- (b) Explain data transmission. Distinguish between baseband transmission and broad band transmission. 5
- (c) How do guided media different from unguided media? Explain three major classes of guided media. 7
- 3. (a) Distinguish between data rate and signal rate. 2
- (b) Define Digital to Analog conversation. Which of four digital to Analog conversation technique is most susceptible to noise? Define your answer. 5
- (c) Define Analog transmission. And explain the technique use for Analog to Analog conversion? 7
- 4. (a) Define Asynchronous transmission. 2
- (b) Discuss the concept of redundancy for error detection and correction. 5

(Turn Over)

V—Sem/CSE/IT/2015(W) (CST-503)

(Continued)

(3)

- (c) What is multiplexing? List different type of multiplexing and explain time division multiplexing technique. 7
- 5. (a) What do you understand about data traffic? 2
- (b) What is the difference between open loop congestion control and close loop congestion control? Name the polices that can control the congestion. 5
- (c) Define congestion. Explain different types of algorithm use for congestion control. 7
- 6. (a) What is the relation in between switch and bridge? <http://www.sctevtonline.com> 2
- (b) Discuss CSMA/CD Ethernet technique. 5
- (c) Write short notes on any two question : 7
 - (i) Medium Access Control
 - (ii) Topology
 - (iii) Ethernet
 - (iv) Wireless LAN.

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(4)

- 7. (a) What is internet working? 2
- (b) What do you mean by internet protocol and distinguish in between IPV₄ and IPV₆? 5
- (c) Explain TCP/IP model compare to OSI model. 7

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