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Term End Examination – December, 2017

Program Title: Diploma/Post-Graduate Diploma in Cyber Security Course Title: DATA COMMUNICATION AND NETWORKING

Course Code: CSP-11 (Session 2017-18)

Time - 3 hours

Full Mark - 100

(Answer any four questions from Group -'A', any two questions from Group -'B' and any three questions from Group -'C')

Group 'A'

Mark: 5 X 4= 20

(Answer any four questions each within 100 words)

Q. No. 1

- a) List out different types of components in data communication system.
- b) What is Modulation?
- c) What are the advantages and disadvantages of twisted pair cable?
- d) What is TELNET and explain it?
- e) Define transit time and response time.
- f) Explain about the different types of multiplexing techniques.
- g) What is the need for transport layer?

Group 'B'

Mark: $10 \times 2 = 20$

(Answer any two questions each within 250 words)

Q. No. 2

- a) Differentiate between half duplex and full duplex communication.
- b) Which layer is responsible for routing in an inter-network and explains it?
- c) What is the basic purpose of setting up a LAN and explain it?
- d) Differentiate between the wired and wireless transmission media.
- e) Compare the layers of OSI Model with that of TCP/IP model.

Group 'C'

Mark: 20 X 3= 60

(Answer any three questions each within 500 words)

Q. No.

- 3. What is a protocol? What are the key elements of a protocol?
- 4. Discuss the features and scope of different categories of Networks: LAN, MAN and WAN.
- 5. What is transmission media? Explain about categories of transmission media with its figure.
- 6. Explain the functions of different layers of OSI Model.
- 7. Discuss about the different types addressing with its example.
- 8. What is Modulation? Explain about different types of modulation.