

(4)

- (b) Draw and explain the block diagram for OSI Reference Model.
- (c) Explain different multiplexing techniques with an example.

Total No. of Questions : 4]

[Total No. of Printed Pages : 4

Course Code CSP - 11

Term End Examination – December, 2019

DATA COMMUNICATION & NETWORKING

Master of Science (Cyber Security) (MSCS)
Post Graduate Diploma in Cyber Security
(PGDCS)

Advance Diploma in Cyber Security (ADCS)

Time : 3 hours

Full Marks : 100

The figures in the right-hand margin indicate marks

Answer **all** Groups as directed

Group—A

1. Answer *all* questions, each in 1 word :

1×10=10

- (a) A computer network permits sharing of _____.
- (b) Computer communication signal which is in the form of continuous-wave is called _____.
- (c) Write down two Web Browsers name.
- (d) What does LAN stand for?
- (e) List different switching techniques.

(2)

- (f) Unguided communication media is _____.
- (g) In computer, converting a digital signal in to an analog signal is called _____.
- (h) DHCP Stands for _____.
- (i) Check Sum is used for _____.
- (j) ARP Stands for _____.

Group—B

- 2.** Answer *any four* questions each within 100 words : $5 \times 4 = 20$
- (a) Differentiate between LAN and WAN.
 - (b) Differentiate between half-duplex and full-duplex communication.
 - (c) What do you mean by the reliability of a computer network?
 - (d) Explain the advantages and disadvantages of the network layer of OSI model.
 - (e) Differentiate between TCP and UDP.
 - (f) Differentiate between Circuit Switching and Packet Switching.

(3)

Group—C

- 3.** Answer *any four* questions each within 200 words : $10 \times 4 = 40$
- (a) What is TDM? Explain the advantages and disadvantages of it.
 - (b) Explain the different characteristics of data communication.
 - (c) What is antivirus? Why it is necessary?
 - (d) Write down all transport layer services of the OSI model.
 - (e) Write down the advantages and disadvantages of LAN, MAN and WAN.
 - (f) Explain the functions of devices :
Repeater, Hub, Bridge, Router, and Switch.

Group—D

- 4.** Answer *any two* questions each within 300 words : $15 \times 2 = 30$
- (a) What is the Internet? Write a brief note on WWW.