Roll No. : .....

Total No. of Questions : **11**] [Total No. of Printed Pages : **3**

PDCA–394

Post-Graduate Diploma Examination, 2021

COMPUTER APPLICATION

Paper - PGDCA-105

(Computer Networks)

Time : 1½ Hours] [*Maximum Marks : **50***

Section–A **(Marks : 2 × 10 = 20)**

Note :– Answer all *ten* questions (Answer limit **50** words). Each question carries **2** marks.

Section–B **(Marks : 3 × 5 = 15)**

Note :– Answer all *five* questions. Each question has internal choice (Answer limit **200** words). Each question carries **3** marks.

Section–C **(Marks : 5 × 3 = 15)**

Note :– Answer any *three* questions out of five (Answer limit **500** words). Each question carries **5** marks.

Section–A

2 each

1. (i) Differentiate between Hybrid and Mesh Topology.

   (ii) Write the function of Network Layer in OSI Model.

   (iii) Describe Half Duplex Method of transmission.

   (iv) Differentiate Simplex and Full Duplex mode of transmission.

   (v) Describe Data Link Layer design issue.

   (vi) Explain Error Detection technique.

   (vii) Write uses of AR Protocol.

   (viii) Write the advantages of Protocol Tunneling.

   (ix) Write the four Application names which uses UDP.

   (x) Write the advantages of Client Server Model.

Section–B

3 each

2. Differentiate OSI and TCP/IP Model.

Or

Describe Coaxial Cable and Fiber Optic Cable.

3. Explain Packet Switching with their types.

Or

Explain the two major problems of Wireless Transmission.

4. Explain the basic forms of Error Control Protocol.

Or

Explain Stop and Wait Flow Control Protocol.

5. Differentiate IPv4 and IPv6.

Or

Describe ICMP.

6. Explain end to end communication in transport layer.

Or

Explain Application Protocol in Application Layer.

Section–C 5 each

7. Delineate data communication and explain the components of data communication system.

8. Explain the working of Circuit Switching and Message Switching with the help of diagram.

9. Explain different types of data link layer frame mechanism.

10. Illustrate IP addressing. How is it classified ? How is subnet addressing performed ?

11. Explain two tier vs. three tier client server model.