

2C8122

Roll No. \_\_\_\_\_

Total No. of Pages: 3

**2C8122**  
**MCA II - Sem (Main) Exam., - 2022**  
**MCA-202 Computer Networks**

Time: 3 Hours

Maximum Marks: 70

*Instructions to Candidates:*

*Attempt all ten questions from Part A. All five questions from Part B and three questions out of five questions from Part C.*

*Schematic diagrams must be shown wherever necessary. Any data you feel missing may suitably be assumed and stated clearly. Units of quantities used /calculated must be stated clearly.*

*Use of following supporting material is permitted during examination.  
(Mentioned in form No. 205)*

1. NIL

2. NIL

**PART - A**

**(Answer should be given up to 25 words only)**

**[10×2=20]**

**All questions are compulsory**

Q.1 What do you mean by Data Communication? Explain the components of Data Communication.

Q.2 What is Full-Duplex Data Transmission?

Q.3 How are the guided media different from unguided transmission media?

Q.4 Write two differences between Analog and Digital signal.

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- Q.5 Differentiate between Hub and Switch.
- Q.6 What is Virtual LAN?
- Q.7 What is Open Shortest Path First Protocol?
- Q.8 What do you mean by flooding?
- Q.9 What is SMTP? What are the components of SMTP?
- Q.10 Write a brief note on Telnet Protocol.

### **PART – B**

**(Analytical/Problem solving questions)**

**[5×4=20]**

**Attempt all five questions (Word limit 100)**

- Q.1 Explain the different categories of a Network.
- Q.2 What is Flow Control Protocol? Explain, briefly FDDI, CDDI and Frame Relay Protocols.
- Q.3 Write short notes on –
- (a) Routers
  - (b) Gateways
- Q.4 Differentiate between UDP and TCP.
- Q.5 What is Domain Name System? Explain types of Name Server in brief.

### **PART – C**

**(Descriptive/Analytical/Problem Solving/Design Questions)**

**[3×10=30]**

**Attempt any three questions**

- Q.1 Differentiate between OSI and TCP/IP Model.

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Q.2 Explain Error Detection Techniques in detail.

Q.3 What are Multiple Access Protocols? Explain ALOHA in detail.

Q.4 What do you mean by routing algorithms? Describe Link State Routing in detail.

Q.5 Write short notes on –

- (a) Cryptography
  - (b) Digital Signatures
  - (c) Firewalls
  - (d) SSL
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