

**2011000305020082**  
**EXAMINATION FEBRUARY-MARCH 2024**  
**BACHELOR OF SCIENCE (FIFTH SEMESTER)**  
**COMPUTER SCIENCE-VII (PAPER-502-COMPUTER**  
**NETWORKING)- LEVEL 2**

[Time: As Per Schedule]

[Max. Marks:50]

**Instructions:**

**1. Fill up strictly the following details on your answer book**

- a. Name of the Examination : **BACHELOR OF SCIENCE (FIFTH SEMESTER)**
  - b. Name of the Subject : **COMPUTER SCIENCE-VII (PAPER-502-COMPUTER NETWORKING) -LEVEL 2**
  - c. Subject Code No : **2011000305020082**
2. Sketch neat and labelled diagram wherever necessary.  
3. Figures to the right indicate full marks of the question.  
4. All questions are compulsory.

Seat No:

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Student's Signature

**Q.1 Answer the following questions (Any Seven)**

**14**

1. Define computer networking. List its advantages.
2. What do you mean by MAC address?
3. Write advantages of FTP.
4. How half-duplex is differ from full-duplex?
5. What is Logical address?
6. Define multiplexing. List out various multiplexing technique.
7. What is routing?
8. What is congestion control?

**Q.2**

- a) Write a note on OSI model. Explain Datalink and session layer in detail. **6**
- b) Discuss LAN and WAN with their advantages. **6**

**OR**

- a) What is topology? Explain star topology with its advantages and limitations **6**
- b) Explain P2P network. Compare its working with client-server network. **6**

- Q.3** a) List out guided transmission media and explain any one in detail. **6**  
b) What is DNS? Write a detailed note on DNS **6**

**OR**

- a) Compare TCP/IP reference model and OSI model. **6**  
b) Why UDP is known as unreliable protocol? Explain in details. **6**

**Q.4 Write a short note on the following. (Any Three) **12****

- a) IP address  
b) circuit switching  
c) CSMA/CD and CSMA/CA  
d) SMTP.

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