

**FOR THE CANDIDATES ADMITTED
DURING THE ACADEMIC YEAR 2020 ONLY)**

(NO OF PAGES: 2)

REG.NO

20UCS413

NGM COLLEGE (AUTONOMOUS) POLLACHI

END-OF-SEMESTER EXAMINATIONS: JULY- 2022

**B. Sc – COMPUTER SCIENCE (AIDED & SF)
IV SEMESTER**

MAXIMUM MARKS: 70

TIME: 3 HOURS

PART-III

DATA COMMUNICATION AND COMPUTER NETWORKS

SECTION – A

(10 X1 = 10 MARKS)

ANSWER THE FOLLOWING QUESTIONS

MULTIPLE CHOICE QUESTIONS

(K1)

(FOR THE CANDIDATES ADMITTED

1. Check sum is used for _____
 - a. Error correction
 - b. Error Detection
 - c. Both a & b
 - d. None of these
2. What is ARP ?
 - a. Address Resolution Protocol
 - b. Address Routing Protocol
 - c. Address Routing Packet
 - d. Address Routing Programme
3. What is ISDN ?
 - a. Integrated Service Digital Network
 - b. Interaction System Digital Network
 - c. Inexpensive System Digital Network
 - d. None of these
4. When the packets are small and same size, they are often called _____
 - a. Packet Switched
 - b. Cells
 - c. Circuit Switched
 - d. Virtual circuit
5. Which one of the following is not done by data link layer?
 - a. Framing
 - b. Error Control
 - c. Flow Control
 - d. Channel Coding

ANSWER THE FOLLOWING IN ONE OR TWO SENTENCES

(K2)

6. What is meant by Half-Duplex Communication
7. Give an example for Guided Transmission media used in computer Network.
8. Define Framing
9. What is WAN ?
10. Expand the : RARP

(CONTD.... 2)

SECTION – B**(5 X 4 = 20 MARKS)****ANSWER EITHER (a) OR (b) IN EACH OF THE FOLLOWING QUESTIONS. (K3)**

11. a) Comment on Multiplexing.
(OR)
b) Describe analog and digital signals with diagram
12. a) Compare Packet Switching and Message Switching
(OR)
b) Brief about Optical Fiber
13. a) Explain Round Robin method.
(OR)
b) List out the Service primitive types.
14. a) List down the rules of CSMA/CD.
(OR)
b) Sketch WAN Architecture
15. a) What is Logical Address? Explain.
(OR)
b) Show Address resolution using ARP

SECTION - C**(4 X 10 = 40 MARKS)****ANSWER ANY FOUR OUT OF SIX QUESTIONS.****(16TH QUESTION IS COMPULSORY AND ANSWER ANY THREE QUESTIONS FROM Q.NO: 17 TO 21)****(K4) OR (K5)**

16. Discuss Parallel and Serial Communications
17. Explain CDMA in detail.
18. Discuss the advantages and disadvantages of different Topologies used in computer Network
19. Analyze Data Link Layer of ISO-OSI reference Model in detail
20. Discuss Distributed Queue Dual Bus (DQDB).
21. Summarize TCP/IP reference Model.