

(FOR THE CANDIDATES ADMITTED

23UCS205

DURING THE ACADEMIC YEAR 2023 ONLY)

REG.NO:

N.G.M.COLLEGE (AUTONOMOUS): POLLACHI

END-OF-SEMESTER EXAMINATIONS: MAY 2024

BSC.COMPUTER SCIENCE (AIDED & SF)

MAXIMUM MARKS: 75

SEMESTER: II

TIME: 3 HOURS

PART - III

23UCS205 - DATA COMMUNICATION AND COMPUTER NETWORKS

SECTION – A

(10 X 1 = 10 MARKS)

ANSWER THE FOLLOWING QUESTIONS. (K1)

1. Which of the following isn't a type of transmission mode?
a) Physical b) Simplex c) Full duplex d) Half duplex
2. Which of the following is the fastest media of data transfer?
a) Fiber optic b) Co – axial c) Untwisted wire d) Telephone line
3. The OSI model consists of ____ layers.
a) Five b) Seven c) Eight d) Nine
4. LAN stands for ____.
a) Local Area Network b) Load Area Network
c) Leak Area Network d) Local Arm Network
5. IP stands for ____.
a) Invoice Protocol b) Income Protocol
c) Internet Protocol d) Internet Provides

ANSWER THE FOLLOWING IN ONE (OR) TWO SENTENCES (K2)

6. What is communication?
7. Define router.
8. What is protocol?
9. Define the term CSMA.
10. Define the term IP.

SECTION – B

(5 X 5 = 25 MARKS)

ANSWER EITHER (a) OR (b) IN EACH OF THE FOLLOWING QUESTIONS.(K3)

11. a) Write difference between Half duplex and full duplex.
(OR)
b) Write difference between analog and digital signals.

(CONT.....2)

12. a) Compare FDMA, TDMA and CDMA.
(OR)
b) Explain circuit switching.
13. a) What are all the protocols in computer communication
(OR)
b) Explain application layer
14. a) Summarize: Ethernet properties.
(OR)
b) Explain Local Area Network.
15. a) Explain about understanding and working of X.25 protocol.
(OR)
b) Illustrate Logical Addresses: Explain.

SECTION – C**(5 X 8 = 40 MARKS)****ANSWER EITHER (a) OR (b) IN EACH OF THE FOLLOWING QUESTIONS.(K4 (Or) K5)**

16. a) Summarize the fundamental concepts of data communications.
(OR)
b) Explain Error detection and correction.
17. a) Explain different types of transmission media.
(OR)
b) Elucidate different types of network topology.
18. a) Describe briefly OSI reference model.
(OR)
b) Discuss transport layer.
19. a) Summarize WAN architecture.
(OR)
b) Discuss on SMDS.
20. a) Explain ISDN architecture.
(OR)
b) Briefly explain TCP/IP.
