

BSc 2nd Semester Computer Science (Major) Assignment

Paper: MDC-II (Information and Communication Technology)

Pandu College, Guwahati

Q1. Answer the questions in one/two sentences.

- a. Define an algorithm.
- b. What is a flowchart?
- c. Name any one number system used in digital technology.
- d. What is Unicode?
- e. Define computer network.
- f. What is LAN?
- g. Name any one programming language.
- h. What is a logic gate?
- i. What is the full form of Wi-Fi?
- j. What is meant by data transmission?
- k. Name any one network device.
- l. What is Firewall?

Q2. Answer the questions briefly:

- a. Explain the concept of Digital Technology with an example.
- b. Write any two differences between LAN and WAN.
- c. What is Unicode? Why is it important?
- d. Define computer network. State any two advantages of networking.
- e. Convert  $61.26_{10}$  to binary number system.
- f. Convert  $4D9$  to Octal number system.
- g.  $517_8$  to Decimal number system.
- h. Write the truth table and logic diagram of OR gate.
- i. Write the difference between compiler and interpreter.

Q3. Answer the questions:

- a. Discuss different types of network devices and physical transmission media used in computer networking.
- b. Explain programming concepts and different types of programming languages with examples.
- c. Draw the flowchart of finding whether a number is prime or not?

Last date of submission of the assignment 18-04-2026