Exam. Code : 107205
Subject Code : 1772

Bachelor of Computer Application (BCA) 5th Semester
COMPUTER NETWORKS
Paper—I

Time Allowed—3 Hours]   [Maximum Marks—75

Note :—There are **EIGHT** questions. Candidates are required to attempt any **FIVE** questions. All questions carry equal marks.

SECTION—A

1. Which are various network topologies ? Explain the benefits and limitations of each.

2. Explain different types of guided and unguided transmission media.

SECTION—B

3. What is modulation ? What is PCM ? Explain different types of Modems.

4. (a) Which are different transmission modes ?

   (b) Explain the difference between circuit switching and packet switching.

SECTION—C

5. What is Ethernet ? Explain 802.3.

6. Explain how error detection and correction is performed by Data Link Layer.

SECTION—D

7. What is use of Cryptography ? Explain public key and private key encryption.

8. Explain any three network services.