

## Paper ID [B0201]

(Please fill this Paper ID in OMR Sheet)

BCA (Sem. - 1<sup>st</sup>)

INTRODUCTION TO INFORMATION TECHNOLOGY (BC - 101)

Time : 03 Hours

Maximum Marks : 60

Instruction to Candidates:

- 1) Section - A is **Compulsory**.
- 2) Attempt any **Four** questions from Section - B.

### Section - A

Q1)

(10 × 2 = 20)

- a) Convert the following from decimal to hexadecimal system
  - i) 54977
  - ii) 41819
- b) What is the difference between supercomputer and mainframe computers?
- c) Define seek time and latency time in a hard disk access.
- d) What is asynchronous and synchronous transmission?
- e) Why is virtual memory used in operating systems?
- f) What is a ring topology in LAN?
- g) What are the system files required for booting in DOS?
- h) What does the following dos command do?
  - i) C:\> COPY \AAA\FILE?.\* C:\
  - ii) C:\> PROMPT \$P\$G
- i) Multiprogramming increases CPU utilization. Explain?
- j) What is Hexadecimal and Binary Number System?

**Section - B**

**(4 × 10 = 40)**

- Q2)** Explain the components of a computer using a block diagram.
- Q3)** Explain the construction and working of floppy disk drive.
- Q4)** What is multiplexing? Explain time division multiplexing in data communication.
- Q5)** Explain the different type of network topologies.
- Q6)** Describe various functions of an Operating system?
- Q7)** Explain multiprogramming and multiprocessing.

