

Code: CS1T6

I B.Tech - I Semester – Regular Examinations - January 2015

**INTRODUCTION TO COMPUTERS
(COMPUTER SCIENCE & ENGINEERING)**

Duration: 3 hours

Max. Marks: 70

PART – A

Answer *all* the questions. All questions carry equal marks
11 x 2 = 22 M

1. a) What components make up a computer?
- b) List the different generations of computers.
- c) How system software is different from application software?
- d) Describe the use of Cache memory in computer.
- e) Define Operating system and list the popular operating systems used in the market?
- f) How algorithm, flowchart and logical program are relevant to each other?
- g) What is the security aspect involved in internet access?
- h) Define data switching and data multiplexing.
- i) Explain about utility computing.
- j) Why Artificial intelligence is considered as emerging computer technology?
- k) Describe the concept of acquiring computer software.

PART – B

Answer any **THREE** questions. All questions carry equal marks. $3 \times 16 = 48$ M

2. a) What are the different classification of computers? 6 M
- b) What are the applications of computers? 6 M
- c) Write short notes on hard copy devices. 4 M
3. a) What is the relationship between CPU speed and the capacity of the memory (RAM)? 4 M
- b) Write short notes on 12 M
- i) Magnetic tapes ii) Floppy disks
- iii) Optical drives iv) Firmware
4. a) Discuss in detail about Generation of programming languages. 8 M
- b) Describe the categorization of High level languages. 8 M
5. a) What are the various network topologies? Explain with example. 8 M
- b) Define routing and explain different techniques in data routing. 8 M

6. a) Explain the concept of distributed networking. 8 M

b) Write short notes on peer-to-peer computing and cloud computing? 8 M