## 97661

# B.C.A. Ist Semester (New) Examination–December, 2013 Computer & Programming Fundamentals

## Рарег-ВСА-101

Time: 3 hours

Max. Marks: 80

Before answering the questions, candidates should ensure that they have been supplied the correct and complete question paper. No complaint in this regard will be entertained after the examination.

Note: Attempt five questions. Select one from each unit. Q. 1 is compulsory.

- 1. (a) Differentiate between Human being and Computer
  - (b) Differentiate between RAIM & ROM
  - (c) What is software? Name Different types of software.
  - (d) What is real time operating system?
  - (e) What is computer language?

- (f) What is debugging?
- (g) Differentiate between internet and intranet.
- (h) What is computer network?

# Unit-I

- 2. (a) Explain the application of computer in various fields.
  - (b) What do you mean by computer? How are computers classified? Explain briefly.

# 3. Differentiate:

- (i) Cache Memory and Virtual Memory
- (ii) Magnetic Disk and Optical Disk
- (iii) Primary Memory and Secondary Memory

## Unit-II

- 4. (a) What is operating system? Explain the various functions of operating system.
  - (b) What is computer virus and their types? How it is harmful for the security of a system?

- **5.** (a) Write the name of five input devices and five output devices. Explain any three of them.
  - (b) Differentiate between multiprogramming, multiprocessing,
     Multithreading and multitasking operating system.

#### Unit-III

- 6. (a) What is structure programming?

  Explain the advantages and disadvantages of structure programming.
  - (b) Explain the following:
    - (i) Type of errors in programming
    - (ii) documentation

### 7. Differentiate:

- (i) Complier, interpreter and assembler
- (ii) loader and linker

#### Unit-IV

8. What do you understand by network topology? State the criteria for selection of a network technology and also illustrate various network topologies indicating their respective pros and cons.