

**97661**

**B.C.A. Ist Semester (New)**

**Examination-December, 2013**

**Computer & Programming Fundamentals**

**Paper-BCA-101**

**Time : 3 hours**

**Max. Marks : 80**

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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.

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

1. (a) Differentiate between Human being and Computer
- (b) Differentiate between RAM & 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) Compiler, 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.