

Roll No.

97661

**B.C.A. 1st Semester (New Scheme)
w.e.f. 2012 Examination-
December, 2012**

**Computer and Programming
Fundamentals**

Paper BCA-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. Question No. 1 is compulsory. Select **one** question from each Section.

1. (a) What is computer ? How is it different from human being ?
- (b) Differentiate between Primary memory and Secondary Memory.
- (c) What is time sharing operating system.

- (d) What is virus ? Name few anti-virus software.
- (e) What is debugging ?
- (f) Differentiate between linker and loader.
- (g) What are the applications of internet ?
- (h) What is network topologies ?

Unit - I

- 2. (a) Write short note on Generation of computers.
- (b) Explain the various component of a digital computer system with a block diagram.
- 3. (a) Explain the application of computer in the field of education and sports.
- (b) What do you understand by memory of a computer ? Describe the various types of memory.

Unit - II

- 4. (a) What is operating system ? Explain the various function of operating system.

(b) Differentiate :

- (i) Single user and multi user Operating System
- (ii) Multiprogramming and multiprocessing operating System.

5. (a) What are printers ? What is their classification ? Also explain the working of any one printer.

(b) What is software ? Explain different type of software.

Unit - III

6. (a) Explain in details the various characteristics of a good program.

(b) Describe what is meant by 4GL and it's important. How is it different from 3GL.

7. (a) What is structured programming ? Explain the advantages and disadvantages of structure programming.

- (b) Explain different types of error in programming.

Unit - IV

8. (a) What is a computer network ? What are the criteria for classification for computer network ? How WAN is different from LAN and MAN.

- (b) Describe different modes of data transmission.

9. (a) What are the hardware and software requirement for intranet ? How is it different from internet ? Describe the application of intranet.

- (b) What do you understand by network topology ? Explain the various network topologies indicating their respective pros and cons.