

Roll No.

97661

**B.C.A. 1st Semester (New)
Examination–November, 2014**

**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 in all. Question Number 1 will be **compulsory**. In addition to compulsory question, student will have to attempt **four** more questions selecting **one** question from each unit.

1. (a) What are multipurpose programming languages ? Name three such languages.
- (b) What are various types of high-level language ?
- (c) What are pseudo codes ?

- (d) Explain the concept of debugging.
- (e) Compare computer and human beings.
- (f) What is the stored program concept ?
Why is it important ?
- (g) What do ENIAC, EDSAC, EDVAC and UNIVAC stand for ?
- (h) What do you understand by data communication ? $8 \times 2 = 16$

UNIT - I

- 2. (a) Discuss the important features of various generations of computers. Also give some examples of computers belonging to each generation. 8
- (b) How computers are useful in publishing and travelling ? 8
- 3. (a) What is role of Cache Memory ? Also explain the terms 'hit' and 'miss'. 8
- (b) In terms of physical size, how are PCs categorized ? 8

UNIT - II

4. (a) What are the different types of computer software ? 8
- (b) What are the main functions of operating system ? 8
5. (a) Write short note on Computer viruses. 8
- (b) Differentiate multiprocessing and multitasking operating system. 8

UNIT - III

6. (a) What are the differences between high-level and low-level languages ? 8
- (b) What do you understand by documentation of program ? 8
7. Differentiate between assemblers, compilers and interpreters. 16

UNIT - IV

8. (a) What is message distribution system ?
What are its functions ? 8

- (b) What purpose do modems serve in data communication system. 8
9. (a) List and describe the various types of modem. 8
- (b) What are the advantages of using fiber-optic as compared to copper wires for data communication ? 8
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