

Roll No. ....

**97661**

**BCA 1st Semester (New)  
Examination – November, 2018**

**COMPUTER & PROGRAMMING FUNDAMENTALS**

**Paper : BCA-101**

***Time : Three Hours ] [ Maximum 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 examination.*

**Note :** Examiner will be required to set *nine* questions in all. Question No. 1 will consist of total 8 parts (short answer type questions) covering the entire syllabus and will carry 16 marks. In addition to the compulsory question there will be *four* Units i.e. Unit-I to unit-IV. Examiner will set *two* questions from each unit of the syllabus and each question compulsory. In addition to *compulsory* question, student will have to attempt *four* more questions selecting *one* question from each Unit.

1. (a) What are the limitations of human of processing ?  
How these can be removed ?  $8 \times 2 = 16$
- (b) What are the major secondary storage devices ?
- (c) Explain the various types of transmission media.
- (d) Differentiate between a bit, byte and a word.

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- (e) What are the advantages and disadvantages of semi-conductor memories ?
- (f) Name *four* computers belonging to each generation.
- (g) Compare desktop, Laptop and Palmtop.
- (h) What is CPU and explain how it works ?

**UNIT - I**

2. Explain the classification of computers according with : 16

- (a) data representation
- (b) purpose
- (c) use
- (d) size, cost and speed
- (e) generation of computers

- 3. (a) What are high level languages ? Why are they known as problem oriented languages ? Name some high level languages. 8
- (b) What is meant by Memory Hierarchy ? State it's important. 8

**UNIT - II**

- 4. (a) Define multiprogramming. Explain how multiprogramming ensures effective utilization of main memory and CPU. 8
- (b) What is the difference between a source program and an object program ? 8

- 5. (a) What is an operating system ? Why is it necessary for a computer system ? 8
- (b) List out the various functions normally performed by an operating system. 8

**UNIT - III**

- 6. (a) Explain the concept of structured programming. How does it differ from the conventional programming techniques ? 8
- (b) What is meant by programming language ? 8
- 7. (a) State the basic control structures which serve as building blocks for structured programming. 8
- (b) Explain the difference between compiler and Interpreter. 8

**UNIT - IV**

- 8. (a) What do you meant by computer technology ? Explain any *three* topologies ? 8
- (b) Describe client-server concept. What are its benefits ? 8
- 9. (a) Describe various internet applications. 8
- (b) Explain the minimal hardware and software required for internet connection. 8

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