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Roll No. ....

**OLE-97661**

**BCA 1st Semester (New)  
Examination – April, 2021**

**COMPUTER & PROGRAMMING FUNDAMENTALS**

**Paper : BCA-101**

*Time : Three hours ]*

*[ Maximum 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 examination.*

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*Note :* Questions Number 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. Questions Number 1 will be *compulsory*. In addition 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 ?
- (b) What are the major secondary storage devices ?

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- (c) Explain the various types of transmission media ?
  - (d) Differentiate between a bit, byte and a word.
  - (e) What are the advantages and disadvantages of semi-conductor memories ?
  - (f) Name four computers belonging to each generation.
  - (g) Explain the similarities and differences of a computer system with human being ?
  - (h) Explain the computer application in medical care ?
- 8 × 2

### UNIT – I

2. What are the essential components of a computer ? Draw the schematic block diagram of a computer showing its essential components. Discuss the function of each unit. 16
3. (a) What is meant by Memory Hierarchy? State it's importance. 8
- (b) Explain the computer application in medical care and business? 8

### UNIT – II

4. (a) Briefly describe the functioning of a paper tape, punch machine and a paper tape reader. 10

- (b) How is multiprocessing different from multiprogramming? 6
5. (a) What is digitizer? Write its advantage and disadvantage. 8
- (b) What are +ve & -ve impacts of computers on society? Illustrate. 8

### UNIT – III

6. Explain the classification of Computers according with (a) Data representation (b) purpose (c) used (d) size. 16
7. (a) What are high level languages? Why are they known as problem oriented languages? Name some high level languages. 8
- (b) State the basic control structures which serve as building blocks for structured programming. 8

### UNIT – IV

8. (a) What is a Network? Explain the concept of internetworking along with the network criteria. 8
- (b) Explain the different modes of connecting to internet. 8
9. (a) What are the three criteria necessary for effective and efficient networks? 8

- (b) What is the impact of computers on society ?  
Explain the similarities and difference of computer  
system with human being. 8
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