

Roll No.

Exam Code : J-21

Subject Code—51688

B.C.A. EXAMINATION

(Batch 2018-2019)

(First Semester)

COMPUTER AND PROGRAMMING
FUNDAMENTALS

BCA-111

Time : 3 Hours

Maximum Marks : 70

Note : Attempt any *Five* questions. Q. No. **1** is compulsory. All questions carry equal marks.

1. Define the following :

- (i) Computer
- (ii) Memory
- (iii) Types of viruses
- (iv) WAN

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- (v) Searching
- (vi) Machine language
- (vii) Internet.

2×7=14

Unit I

2. Draw a block diagram of basic components of a computer system. Explain each component in detail. Also write applications of computer in various fields. **14**
3. Explain primary and secondary memory in detail. **14**

Unit II

4. Define the software. List and explain the types of software. Give two examples of each category. **14**
5. Define Operating System. Differentiate between multitasking and multiprogramming operating system. **14**

Unit III

6. Define top-down and bottom-up programming. What are the different types of errors in programming ? Explain with suitable example. **14**
7. Explain the terms compiler, interpreter and assembler in detail. **14**

Unit IV

8. What do you mean by sorting and merging ? Also compare the selection and insertion sorting with the help of suitable example. **14**
9. What is Network Topology ? Explain the different types of topology. **14**