

Roll No.

Exam Code : J-21

Subject Code—51620

B. C. A. EXAMINATION

(Batch 2020 Onwards)

(First Semester)

COMPUTER AND PROGRAMMING
FUNDAMENTALS

BCA-PC(L)-113

Time : 3 Hours

Maximum Marks : 70

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

1. Define the following :

- (i) Memory
- (ii) Multi-tasking
- (iii) Pseudo code
- (iv) Bubble sort
- (v) Searching
- (vi) Virus
- (vii) Operating System

2×7=14

(6-04-5-0721) **J-51620**

P.T.O.

Unit I

2. Describe computer along with its block diagram and components. Also write applications of computer in various fields. 14
3. Explain primary and secondary memory in detail. Also describe the differences between them. 14

Unit II

4. What is software ? How many types of software are ? Explain relationship between hardware and software. 14
5. Describe the concept of multiprogramming. Also differentiate between single user and multi-user operating system. 14

Unit III

6. Define Problem. What are the different types of error in programming ? Explain with suitable example. 14

7. What is Algorithm ? How can you measure the quality of algorithm ? Also write programming methodology. 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. Explain compiler, interpreter and assembler in detail. 14