Total No. of Questions: 8] | Total No. of Printed Pages : 4

Paper Code: 21301 F-401

B.C.A. (First Semester) Examination, 2021-22

(New Course)

Paper - BCA-101

Computer Fundamental and Programming

Time: Three Hours] [Maximum Marks: 70

Note: Attempt any five questions. All question carry equal marks.

Draw a block diagram of Computer 1. and explain the function of each of the 8 blocks?

> Explain the generation of Computer with 6 their features?

P.T.O.

What are the peripheral devices? Explain with example? Differentiate between primary secondary memory on basic of their characteristics? Convert the following: 3. $(17.35)_{10}$ to binary form (ii) (375)₈ to hexadecimal number (iii) (AB2)₁₆ to octal number What do you mean by fixed and floating point representation? Also differentiate ASCII & EBSDIC code? Differentiate among Machine Language Assemble. Language and High level Language. Define System Software with example.7 (2)

https://www.mjpruonline.com

21301-F-401

7

and

6

8

(1)

- (a) Define Algorithm & Draw a flow chart to find greater between Two numbers?
 - (b) What is structured programming?
 Discuss about the debugging and testing of programmes?
 7
- 6. (a) Discuss various "C" operators with example.
 - (b) Differentiate "while" and "Do-while" loop with example.
- 7. (a) What do you mean by Sorting? Describe

 Bubble sort? https://www.mjpruonline.com 7
 - (b) What are two dimensional arrays?Write a program in "C" language to add two matrices of 3×3.
- 8. Write short notes on any four of the following:
 - (a) Central Processing Unit 3.5 each
 - (b) "C" Preprocessor
 - (c) Linear Array

- (d) Program Correctness
- (e) "For" loop
- (f) Data types in "C"
- (g) Insertion Sorting