Total No. of Questions : 8]   [Total No. of Printed Pages : 3

Paper Code : 21301

F-401

B.C.A. Ist Year (First Semester)

Examination, 2021

(New Course)

Paper-BCA-101

COMPUTER FUNDAMENTAL AND

PROGRAMMING IN C

Time : Three Hours]   *[Maximum Marks : 70*

Note : Attempt any **five** questions.

1. (a) What do you mean by Computers? Discuss various generations of Computer in brief?

   (b) Draw and explain a neat block diagram of Computer?

2. (a) What are various memories, types, explain their characteristics?

(1)

P.T.O.

   (b) Write classification of Computer?

3. (a) Convert following :

   (i) $(3AC)_{16} = (?)_2$

   (ii) $(53.72)_{10} = (?)_{16}$

   (iii) $(746)_8 = (?)_2$

   (iv) $(101010111)_2 = (?)_{10}$

   (v) $(5.72 \times 10^2)_{10} = (?)_8$

   (b) What do you mean by ASCII Character?

4. (a) What are various Software types, explain?

   (b) Differentiate between :

   (i) Machine Language and Assembly language

   (ii) Top down and bottem up approach?

5. What are various program planning tools, explain in brief? Draw and explain a flow Chart to find larger of two numbers?

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6. (a) What are arrays? Write a 'C' program to find smallest number of an array of 10 numbers?

(b) Write a 'C' program to perform searching an element in an array of 10 numbers?

7. (a) What are loops, write a program to print "Hello World" 20 times using any loop?

(b) What do you mean by debugging explain?

8. Write short notes (any **four**) :

(i) EBSDIC

(ii) Library functions

(iii) Variables in 'C' programs

(iv) I/O devices

(v) Testing

(vi) History of computers

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