Total No. of Questions: 8]

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Paper Code: 21301

F-401

B.C.A. Ist Year (First Semester) Examination, 2018

(New Course)

Paper-BCA-101

COMPUTER FUNDAMENTAL AND PROGRAMMING IN C

Time: 3 Hours 1

| Maximum Marks: 70

Note :- Attempt any five questions.

- Explain the various generations of computers ł. (a) discussing the technical changes and achievement in each generation.
 - What do you understand by input-output devices? Explain five input and output devices. 7.7
- Define various decision control statements in C. If the marks obtained by a student in three different subjects are input through the keyboard. Write a program in C to calculate average marks and percentage obtained by the student.

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(1)



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Discuss the various types of operators in C. Discuss each with suitable example.

- What is Structured programming concept? Define in detail top down design.
 - Discuss flow charts. Also define various flow chart notation used of representation of "C" Programs.
- What do you mean by computer software? Discuss the relationship between software and hardware. Explain different types of software with suitable example of each.
 - (b) What is memory? What are the different types of memories? Discuss their merits, demerits and area of application.
- 5. Define linear array and Multidimensional array with example. Write a program in C to calculate matrix 14 multiplication of two 3 * 3 matrix.
- 6. (a) Covert the following:

2 each

7.7

7.7

7.7

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- $(330.625)_{10}$ > $()_2$
- (110.1001), > ()10



(2)

- (iii) (6782)₈ > ()₁₆
- (iv) (9EB)₁₆ > ()₈
- (v) (5B7)₁₆ > ()₁₀
- (b) Explain the following terms: 2 each
 - (i) ASCII Code
 - (ii) Bit and Bytes.
- 7. Differentiate between any four of the following: 3.5 each
 - (i) While loop and Do-while loop
 - (ii) Multiprocessing and Multiprogramming
 - (iii) Algorithm and Flowchart
 - (iv) Break and Continue Statement
 - (v) Time sharing and Real time processing.
- 8. Write short notes on any new of the following: 7 each
 - (i) Central Processing unit
 - (ii) High level language
 - (iii) Debugging and testing of programs.

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