

Paper Code : 21301

F-401

B. C. A. (First Semester)

EXAMINATION, 2017-18

(New Course)

Paper No. BCA-101-N

**COMPUTER FUNDAMENTAL AND
PROGRAMMING**

Time : Three Hours]

[Maximum Marks : 70

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

1. (a) Define Computer. Explain the characteristics of Computer.
(b) Define the term 'Memory'. Differentiate between primary and secondary memories.
2. (a) What is ASCII code ? Write a program to convert numbers from 1-50 to its equivalent ASCII value.
(b) Compare and contrast between Low level language and High level language.

3. (a) What is Data Representation ? How to represent integers and floating point numbers ?
(b) Convert the following :
 - (i) $(100101)_2$ to $(X)_{10}$
 - (ii) $(928)_{10}$ to $(X)_8$
 - (iii) $(37.50)_{10}$ to $(X)_2$
 - (iv) $(E7B5)_{16}$ to $(X)_{10}$
 - (v) $(456)_8$ to $(X)_{10}$
 - (vi) $(54398)_{10}$ to $(X)_{16}$
 - (vii) $(1001.1010)_2$ to $(X)_{10}$
4. (a) Explain any *five* 'C' operators. Give suitable example for each.
(b) What is Flowchart ? Discuss the various symbols used in Flowchart. Write an algorithm and flowchart to find maximum number between two numbers.
5. (a) What do you understand by Debugging and testing of programs ?
(b) Define Preprocessor. Compare and contrast Compiler and Interpreter.
6. (a) Describe Control Flow Statements with suitable examples.
(b) What is Data Type ? Discuss its classification with proper example.

[3]

7. (a) Define Array. Discuss the various operations associated with an array.
(b) Describe the types of Sorting and Searching with suitable example.
8. (a) Write a program to check whether an entered number is Palindrome or not.
(b) Write a program to perform addition of two 2×2 matrices.

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