

1E2206

1E2206

B.Tech. I Semester (Back) Examination, Dec. - 2018
CS-101 Computer Programming

Time : 3 Hours

Maximum Marks : 80
Min. Passing Marks : 28**Instructions to Candidates:**

Attempt any five questions, including Question No.1, which is compulsory. All questions carry equal marks. (Schematic diagrams must be shown wherever necessary. Any data you feel missing suitably be assumed and stated clearly. Units of quantities used/calculated must be stated clearly.

Compulsory. Answers for each sub - question be given in about 25 words.

(8×2=16)

1. Explain in brief.
 - a) Flow chart & pseudo code.
 - b) Formatted input and output functions.
 - c) Constants in 'C'.
 - d) ASCII & EBCDIC code.
 - e) Data type conversion.
 - f) Keywords in 'C'.
 - g) Function call & function definition.
 - h) Iteration.
2.
 - a) Explain the block diagram of computer, also explain its different parts. (8)
 - b) Differentiate between :
 - i) Low level and high level programming language.
 - ii) Primary memory and secondary memory. (8)

3. a) Explain the looping statement with types, syntax and examples. (8)
b) Explain the break, goto and continue statement with examples. (8)
4. a) Explain recursion with an example. (8)
b) Convert the followings :
i) $(568)_8 = ()_{10}$
ii) $(2AB)_{16} = ()_2$
iii) $(11010011)_2 = ()_8$
iv) $(269)_{10} = ()_{16}$ (8)
5. a) Explain the different decision making statements in 'C' with examples. (8)
b) Write a program in 'C' to find the minimum number among three given numbers using nested if - else. (8)
6. a) Explain the structure of a 'C' program. Write the advantages of modular programming. (8)
b) Explain the different datatypes in 'C' programming language. (8)
7. a) Explain the function and different techniques of parameter passing. (8)
b) Write a program in 'C' to exchange the values of two variables using a function. (8)