

JAYPEE UNIVERSITY OF INFORMATION TECHNOLOGY, WAKNAGHAT

END TERM EXAMINATION- 2016

B.Tech Summer Semester

COURSE CODE: 10B11CII11

MAX. MARKS: 50

COURSE NAME: Introduction to Computers and Programming

COURSE CREDITS: 04

MAX. TIME: 2HRS

Note: All questions are compulsory. Carrying of mobile phone during examinations will be treated as case of unfair means. Each question carries equal marks.

1. (a) Write the Summary of Operator Precedence and Associativity in Tabular form.
(b) What is structured programming? What are the advantages of structured programming in C?
2. (a) Explain the utility of programming modules in C
(b) What is the difference between user defined functions and standard library functions in C?
(c) What is the use of function prototype declaration? Explain the followings:
 - i. Function prototype declaration
 - ii. Function call in main program
 - iii. Function definition
3. (a) What is the difference between **call by value** and **call by reference**? WAP to swap the two numbers.
(b) What are the stack frames? How are they connected with function calls?
(c) WAP to print the largest number among three integers using programmer-defined function maximum to determine and return the largest of three integers.
4. (a) Write the statement code for:
 - i. Random numbers 5 to 9
 - ii. Random numbers 11 to 25
(b) WAP for game of chance using two dies such that:
 - i. For 12,10, and 9 print won.
 - ii. For 2,4, and 6 print lost.
 - iii. For other outcomes print play continue.

5. (a) Write various ways to initialize an array.

(b) WAP to compute $C[10] = A[10] + B[10]$ where:

- i. The elements of array A are filled with random numbers 10 to 21
- ii. The elements of array B are filled with random numbers 6 to 15

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