

VINAYAKA MISSIONS SIKKIM UNIVERSITY
(Estd. by Sikkim Legislative Act vide VMSU Act No.11 of 2008)
DIRECTORATE OF DISTANCE EDUCATION
NH 10-A, Tadong, East Sikkim-737102
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Phone: 93323-67555/03592-232588

Programme: Master of Computer Application

Session:2015-16

Full Marks: 10

Course/Subject Name: Practical II: Programming Lab

Course/Subject Code:CS 4P02

Assignment No:1

Last Date of Submission:31st March 2016

SECTION –A

Answer the following questions.

[0.5x10=5]

1. What is the base data type of a pointer variable by which the memory would be allocated to it?
 - a) Unsigned int
 - b) int
 - c) float
 - d) depends upon the type of variable to which it is pointing
2. The right way of initializing array is:
 - a) `int n{}={1,2,3,4,5};`
 - b) `intnum[6]={2,3,5,7,8,9};`
 - c) `int n{6}={2,4,5,6,7,8};`
 - d) `int n(6)={2,3,4,5,6,7};`
3. The default parameter passing mechanism is:
 - a) Call by value
 - b) Call by reference
 - c) Call by value result
 - d) none
4. The recursive functions are executed in a:
 - a) Parallel order
 - b) FIFO order
 - c) LIFO order
 - d) Iterative order
5. In which stage the following code `# include<stdio.h>` gets replaced by the contents of the file `stdio.h`?
 - a) During preprocessing
 - b) During linking
 - c) During executing

- d) During editing
6. The operator used for dereferencing or indirection is:
a) & b) * c) -> d) ->>
7. Which is the mandatory part to be present in function pointer?
a) & b) return value c) data types d) none
8. Which of the following operator is used to release the dynamically allocated memory?
a) delete b) free c) remove d) drop
9. The fields in the class are by default:
a) Public b) protected c) private d) none
10. In CPP, dynamic memory allocation is done using _____ operator.
a) calloc () b) new c) malloc () d) allocate

SECTION -B

Answer any Five questions from the following within 50 words

[1x5=5]

1. What is the difference between function declaration and function definition?
2. What are the commonly used input/output functions in C?
3. What is an array? What is the value that appears at the last location in character array?
4. Define Pointer with example.
5. Explain the basic structure of a C program with an example.
6. What is the advantage of recursion?
7. What is the main difference between Structure and Union?

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Assignment No: 2

Last Date of Submission: 15th April 2016

SECTION –A

- 1 Write a program in C to convert Fahrenheit to Celsius
- 2 Write a program in C to accept three numbers and find the largest among them.
- 3 Write a program in C to find the roots of a quadratic equation.

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Course/Subject Name: Practical II: Programming Lab

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Assignment No: 3

Last Date of Submission: 15th April 2016

SECTION –A

- 1 Write a program in C to check whether the given number is a prime number or not.
- 2 Write a program in C to accept two numbers and perform various arithmetic operations (+, -, *, /) based on the symbol entered.
- 3 Write a recursive program in C to find the factorial of a number.