End Sem (I) – MCA (II)

2016

Time : 3 hours

Full Marks: 70

Candidates are required to give their answers in their own words as far as practicable.

The figures in the margin indicate full marks.

Answer from **all** the Groups are directed.

Group – A

(**Compulsory**)

1. State whether the following statement is **True** or **False**:   1x15=15
   a) putch() function is used to display a character on the monitor screen.
   b) The exit() function is used to transfer the control to the end of a program.
   c) If strcmp() function returns a value 0, it means two strings are identical.
   d) getche() function is used to read a character from the keyboard without expecting the enter key press.
   e) Function prototype is always declared at the beginning of the main program.
   f) sizeof() of a structure is equal to the total number of bytes occupied in RAM by various data members in the structure.

g) malloc() function is used to allocate memory in multiple blocks of same size during the program execution.

h) rewind() function is used to move the file pointer to the beginning of a file.

i) The file is opened in **ate** mode to add information at the end of the file.

j) The preprocessor is a program which is executed before the complication of a source program written by the user.

k) Exceptions are the program which used to handle run time error.

l) **int** can hold a signed or unsigned whole number within the specified range.

m) An identifier can begin with _(underscore).

n) In implicit conversion one of the operand data type is converted to the type of other operand.

o) Programming language are used to develop software.

Group – B

Answer any **five** questions of the following: 4x5=20

2. What is flow chart? Draw a flow chart to find biggest of given three numbers.

3. What is a recursive function? Write a program in C to find factorial of a number through recursion.

4. What is the difference between **auto** and **static** variable?

5. What is associativity? Explain the operator precedence.

6. Write a program in C to check whether the given string is palindrome or not.

7. Explain Client-Server Architecture.

8. How do you initialize arrays in C? Write the difference between Array and Structure.
9. Distinguish between printf() and fprintf() functions.
10. What is the difference between break and continue statement? Explain with example.

Group – C

Answer any **five** questions of the following: 7x5=35

11. Explain System Development Life Cycle.
12. What is the difference between call by value and call by reference? Explain with example.
13. A student master file consists of registration number, name and marks in five subjects. Write a C program which will read the file and print a list of students who have failed in one or more subject. Assume 40% is the pass marks.
14. Write a C program is declare a structure with data members employee numbers, employee name and basic pay of the employee. Declare a structure pointer and an array EMPLOY with 50 elements. The program should read 'n' employee details and print the list of all employees along with the basic pay.
15. Explain any **two** of the following:
    a) Pre-processor directives
    b) Command line arguments
    c) Macros
16. Write a program in C to print all prime numbers between 1 to n. the value of n should be given through keyboard.
17. Write a program in C to count number of lines, words and character in a given text.

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For more questions visit: