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TCS-201

B. Tech. (Second Semester) Mid Semester EXAMINATION, 2014

(All Branches)

PROGRAMMING IN 'C'

Time: Two Hours

[Maximum Marks: 60'

- Note: (i) This question paper contains two Sections: Section A and Section B.
 - (ii) Answer all questions in Section A by choosing the correct option from multiple choices. Each question carries 2 marks.
 - (iii) Answer any *four* questions from Section B. Each question carries 12 marks.

Section—A

2 each

- 1. Attempt all multiple choice questions, choosing the correct option.
 - (i) What will happen if in a C program you assign a value to an array element whose subscript exceeds the size of array?
 - (a) The element will be set to 0.
 - (b) The compiler would report an error.
 - (c) The program may crash if some important data gets overwritten.
 - (d) The array size would appropriately grow.

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- (a) Zero
- (b) Null Terminator
- (c) Character
- (d) None of these
- (iii) If the two strings are identical, then strcmp() function returns:
 - (a) -1
 - (b) 1
 - (c) 0
 - (d) None of thes
- (iv) Which of the following functions is more appropriate for reading a multi word string?
 - (a) scanf()
 - (b) gets()
 - (c) Can be both
 - (d) None of these
- (v) How many characters are there in "X"?
 - (a) 1
 - (b) 2
 - (c) 3
 - (d) None of these
- (v) int a[5] = {1, 2, 3, 4, 5};
 int sum = 0;
 for (i = 0; i < 5; i ++)
 {
 If (i%2 == 0)
 sum = sum + a[i];
 } printf("%d", sum);</pre>
 - (a) 10
 - (b) 9
 - (c) 6
 - (d) None of these

Section—B

12 (6+6) each

Note: Attempt any four of the following questions.

- 2. (a) What are arrays? What are the advantages and disadvantages of arrays? Is it necessary to check bound in array? Explain.
 - (b) Write a program to soft the elements of an array in descending order.
- 3. (a) What are strings? Explain the difference between character array and string with a programming example.
 - (b) Write a program to concatenate two strings without using standard library functions.
- 4. (a) What are Functions? Explain the syntax of function declaration, function definition and function call.
 - (b) Write a program to input three numbers in main function and calculate the largest number by passing these numbers to the function and print the largest number in the main function.
- 5. (a) What is the disadvantages of scanf() function? What you will do to overcome this problem? Explain any five predefined string function with their general syntax and use?
 - (b) Write a program to copy the n characters of string from the mth position in another string and print both the strings.
- 6. (a) Explain advantages of using functions. Explain the difference between actual and formal parameter with the help of example.
 - (b) Write a C program to convert a number from decimal to hexadecimal using array.

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