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Code No: R10105/R10 **Set No. 1**

I B.Tech I Semester Supplementary Examinations, Oct/Nov 2013
C PROGRAMMING
(Common to Civil Engineering, Electrical & Electronics Engineering, Mechanical Engineering, Electronics & Communication Engineering, Computer Science & Engineering, Chemical Engineering, Electronics & Instrumentation Engineering, Bio-Medical Engineering, Information Technology, Electronics & Computer Engineering, Aeronautical Engineering, Bio-Technology, Automobile Engineering, Mining and Petroliem Technology)

Time: 3 hours Max Marks: 75

Answer any FIVE Questions
All Questions carry equal marks

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1. Write a C program that converts and prints a user supplied measurement in inches into foot(12 inches),yard(36 inches),centimetre(2.54/inch) and meter(39.37 inches). [15]

2. (a) What is null? Justify your answer with an example
   (b) Write a C program to find the biggest of 3 numbers [8+7]

3. (a) Write a program to count number of words, lines and characters in a text
   (b) Write C program to find out the length of given string without using string function. [8+7]

4. Write a program to find determinant of a matrix. [15]

5. (a) What is the advantage of using recursive function?
   (b) Write a C Program to demonstrate Towers of Hanoi using Recursion. [8+7]

6. (a) Explain 'Lvalue' and 'Rvalue' terms in Pointers.
   (b) Write a C Program to perform Binary Search using pointers. [7+8]

7. (a) What are different ways of accessing structure elements.
   (b) Declare a structure with the elements Book. No., Book Name, Book Price. and write a program to access the elements. [8+7]

8. (a) What is a text file? Describe the various modes of opening a text file.
   (b) What is a binary file ? Describe the various modes of opening a binary file. [7+8]

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Code No: R10105/R10 **Set No. 2**

I B.Tech I Semester Supplementary Examinations, Oct/Nov 2013
C PROGRAMMING
(Common to Civil Engineering, Electrical & Electronics Engineering, Mechanical Engineering, Electronics & Communication Engineering, Computer Science & Engineering, Chemical Engineering, Electronics & Instrumentation Engineering, Bio-Medical Engineering, Information Technology, Electronics & Computer Engineering, Aeronautical Engineering, Bio-Technology, Automobile Engineering, Mining and Petroliem Technology)

Time: 3 hours Max Marks: 75

Answer any FIVE Questions
All Questions carry equal marks

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1. (a) What is CPU? Explain about various components of CPU.
   (b) Differentiate between hardware and software. [8+7]
2. What are bitwise shifting operators? Explain about bitwise shifting operators with suitable programming example. [15]
3. (a) Explain different looping statements with syntax and examples
   (b) Write a C program to find the sum of the following series: $1^2+2^2+3^2+\ldots n^2$ [8+7]
4. Write a program to find rank of a matrix. [15]
5. (a) What are the different standard library functions available in 'C'?
   (b) Write a 'C' program to calculate factorial of a number using with argument and no return type. [8+7]
6. (a) Write short notes on Pointers.
   (b) What are the various operations performed in Pointers. Explain with an example. [15]
7. (a) What are different ways of accessing structure elements.
   (b) Declare a structure with the elements Book. No., Book Name, Book Price. and write a program to access the elements. [8+7]
8. (a) What is a File and what advantage do disk files have over holding data in memory
   (b) Write the syntax for opening and closing a file. [7+8]

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Code No: R10105/R10 **Set No. 3**

I B.Tech I Semester Supplementary Examinations, Oct/Nov 2013
C PROGRAMMING
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Time: 3 hours Max Marks: 75

Answer any FIVE Questions
All Questions carry equal marks

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1. What are assignment operators in C? Explain about assignment operators in C with appropriate examples [8+7]
2. (a) What are selection statements? What is the necessity of selection statements? Justify your answer.
   (b) Write a C program to find whether the seller has earned profit or loss. Selling price and Cost price is read through keyboard. [7+8]
3. (a))Write C program compare two string for equality without strcmp( ) function?
   (b) Write C program the given string is palindrome or not? [8+7]
4. How multidimensional array is passed to function, how are the formal argument declaration written? Compare with one dimensional array. [15]
5. (a) Compare Function and Recursive Function.
   (b) Explain the concept of Function. [7+8]
6. (a) Write short notes on Pointers.
   (b) What are the various operations performed in Pointers. Explain with an example. [15]
7. What is nested structure. Give the syntax. Explain with an example [15]
8. Explain the operation of random access file, mention its advantage and disadvantage with example. [15]

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Code No: R10105/R10 **Set No. 4**

I B.Tech I Semester Supplementary Examinations, Oct/Nov 2013
C PROGRAMMING
(Common to Civil Engineering, Electrical & Electronics Engineering, Mechanical Engineering, Electronics & Communication Engineering, Computer Science & Engineering, Chemical Engineering, Electronics & Instrumentation Engineering, Bio-Medical Engineering, Information Technology, Electronics & Computer Engineering, Aeronautical Engineering, Bio-Technology, Automobile Engineering, Mining and Petroliem Technology)

Time: 3 hours Max Marks: 75

Answer any FIVE Questions
All Questions carry equal marks

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1. What are constants in C? Explain about various constants used in C [15]
2. Differentiate the conditional operator with if else statement. Explain with appropriate examples [15]
3. (a) Explain the various formats of 'for' loop?
   (b) Write a C program to generate fibonacci series until given number? [8+7]
4. How multidimensional array is passed to function, how are the formal argument declaration written? Compare with one dimensional array. [15]
5. (a) Write short notes on nesting of functions.
   (b) Write a C program to explain call by value and call by reference concept. [6+9]
6. (a) What is a null pointer? When it is used?
   (b) What is a 'void' pointer. When 'void' pointer is used? [7+8]
7. What are the different ways to copy the elements of one structure into another structure. Explain with an example [15]
8. Describe types of files with an example. [15]

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