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

I B.Tech I Semester Supplementary Examinations, Jan/Feb 2015
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

⋆ ⋆ ⋆ ⋆ ⋆

1. (a) Describe the procedure for creating and running C programs using algorithmic approach.
   (b) What are different types of input devices? Explain. [8+7]
2. What is if statement? Give different forms of if-else statements using syntax and flow chart notations (use suitable examples). [15]
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 handling function. [8+7]
4. (a) Write a program to evaluate the average of the values in an array.
   (b) Write a program to delete an element from an array. [8+7]
5. (a) Explain the role of Return statement in Functions.
   (b) Write short notes on scope of a variable. [8+7]
6. (a) Explain the concept of passing strings to functions as dynamic arrays with a program.
   (b) Describe about **pointers to pointers** in 'C'. [8+7]
7. What is nested structure. Give the syntax. Explain with an example [15]
8. Write a program that changes every 5th character of the data file into uppercase. [15]

⋆ ⋆ ⋆ ⋆ ⋆

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

I B.Tech I Semester Supplementary Examinations, Jan/Feb 2015
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

⋆ ⋆ ⋆ ⋆ ⋆

1. (a) What is CPU? Explain about various components of CPU.
   (b) Differentiate between hardware and software [8+7]
2. (a) Illustrate the Logical and Shift operators with suitable examples?
   (b) Explain the use of break statement with an example. [8+7]
3. (a) Write C program to delete all occurrences of vowels in given text
   (b) Write a C program to copy the one string to another string without strcpy( ) function [8+7]
4. (a) Explain the drawbacks of linear arrays in detail.
   (b) Write a C program to calculate sum and average of array elements [8+7]
5. (a) Define Actual Parameters and Formal Parameter. What is meant by Global and Local variable? Explain with an example.
   (b) Write a C program to find sum of given series by using Function with argument and return value e = 2 + 3/1! – 6/2! + 9/3! – 12/4! + ... [7+8]
6. (a) Explain the terms 'One Level' and 'Multi Level' Indirection methods using Pointers.
   (b) Write a C Program to implement the above methods. [8+7]
7. (a) How to declare a structure in C explain with an example
   (b) How to access the elements of a structure explain with an example [8+7]
8. (a) Distinguish between the binary files and text files in C with suitable examples
   (b) Explain about formatted I/O in files. [7+8]

⋆ ⋆ ⋆ ⋆ ⋆

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

I B.Tech I Semester Supplementary Examinations, Jan/Feb 2015
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

⋆ ⋆ ⋆ ⋆ ⋆

1. (a) Write a C program to calculate the total sale given the unit price, quantity, discount rate 20% and VAT tax 12.5%
   (b) Write a C program that asks the user to enter a temperature in Centigrade and then prints the equivalent value in Fahrenheit. [8+7]
2. Differentiate between if statement and if-else statement with suitable examples and proper syntax. [15]
3. (a) Write C program to illustrating do while and while do loops.
   (b) Write a C program to compare one string with another string without using strcmp() function [8+7]
4. (a) Write C program sorting of array elements
   (b) Write C program searching of array element [8+7]
5. (a) What is the advantage of using Recursive Function and explain with an example
   (b) Write a C Program to demonstrate 'Towers of Hanoi' using Recursion [8+7]
6. (a) What are the advantages of using Pointers.
   (b) Write a C Program to compare two string using Pointers. [8+7]
7. What is nested structure. Give the syntax. Explain with an example [15]
8. Create Two Text files and Write a program to add the contents of one file at the end of another. [15]

⋆ ⋆ ⋆ ⋆ ⋆

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

I B.Tech I Semester Supplementary Examinations, Jan/Feb 2015
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

⋆ ⋆ ⋆ ⋆ ⋆

1. What are constants in C? Explain about various constants used in C [15]
2. What are bitwise logical operators? Explain about bitwise logical operators with suitable programming example. [15]
3. (a) What is String? Explain about declaration and initialization of string in 'C'
   (b) How to display string with different formats? Explain with examples. [8+7]
4. (a) Explain one-dimensional array and its operations?
   (b) Write a C program to perform addition of two matrices. [8+7]
5. (a) Write a program to demonstrate passing an array argument to a function. Consider the problem of finding largest of N numbers defined in an array.
   (b) Write a 'C' program to explain about built in functions with an example. [8+7]
6. (a) Mention the use of size of and pointer operator in 'C'. Explain them with a program.
   (b) How comma and member selection operators used in 'C'. Explain with program. [8+7]
7. (a) How to initialize structure during declaration? Give an example
   (b) Write a c program to declare a structure with the following elements and for accessing them. 1.Name. 2. Age 3.University [7+8]
8. (a) Write a C program to count the number of characters in a file.
   (b) Write a C program to count the number of words in a file. [8+7]

⋆ ⋆ ⋆ ⋆ ⋆