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

I B.Tech I Semester Regular Examinations, February 2011

C PROGRAMMING

(Common to All Branches)

Time: 3 hours **Max Marks: 75**

Answer any FIVE Questions
All Questions carry equal marks
****

1 (a) Define Algorithm.
(b) What is the use of flowchart ?
(c) What are the different steps followed in the program development?
[3M + 4M + 8M]

2 (a) Write short notes on scope of a variable.
(b) Write short notes on pointers.
(c) Write a program to generate Fibonacci series using static storage class.
[4M + 4M + 7M]

3 (a) Write a program using structures to display the following information for each customer name, account number, street, city, old balance, current payment, new balance, account status.
(b) List the differences between Structure and Union.
[8M + 7M]

4 What are the different types of control statements available 'C'. Explain them with an example?
[15M]

5 What is the advantage of using arrays? Give syntax for declaration, accessing and printing one - dimensional array?
[15M]

6 (a) Write a program and explain the working of malloc and calloc function.
(b) Write a program to compare two strings without using existing functions.
[7M + 8M]

7 (a) What is the purpose of library function feof() ? How feof() be utilized within a program that updates an unformatted data file. Explain
(b) Write a program to copy one file data into another file.
[7M + 8M]

8 Write short notes on
(a) Conditional statements
(b) Bitwise operators
(c) String handling functions.
[4M + 7M + 4M]

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

I B.Tech I Semester Regular Examinations, February 2011

C PROGRAMMING

(Common to All Branches)

Time: 3 hours **Max Marks: 75**

Answer any FIVE Questions
All Questions carry equal marks
****

1 (a) Define Algorithm.
(b) What is the use of flowchart?
(c) What are the different steps followed in the program development
[3M + 4M + 8M]

2 What are the different type's operators? Explain each with suitable example.
[15M]

3 (a) Write the syntax for declaring two - dimensional array write a program to access and print the array elements.
(b) Write a program to find max and min elements from the array.
[8M + 7M]

4 (a) Explain about call by value with an example.
(b) Write a program to generate Fibonacci series using with argument and return type.
[7M + 8M]

5 (a) How to copy one structure to another structure of a same data type, give an example?
(b) List the differences between structure and union.
[9M + 6M]

6 (a) Write briefly about the conditional and unconditional statements.
(b) Write a program to award the grad to the students using switch statements.
[7M + 8M]

7 (a) What are the different types of storage classes? Explain each with suitable example.
(b) Write a program to count number of characters in a string.
[8M + 7M]

8 Explain the following operations
(a) fseek()
(b) ftell
(c) rewind()
(d) ferror()
[3M + 4M + 4M + 4M]

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

I B.Tech I Semester Regular Examinations, February 2011

C PROGRAMMING

(Common to All Branches)

Time: 3 hours **Max Marks: 75**

Answer any FIVE Questions
All Questions carry equal marks
****

1 (a) Define Algorithm.
(b) What is the use of flowchart ?
(c) What are the different steps followed in the program development?
[3M + 4M + 8M]

2 What are the different types of control statements available 'C'. Explain them with an example?
[15M]

3 (a) Give some important points while using return statement .
(b) Write short notes on scope of a variable
[7M + 8M]

4 (a) Write a program using structures to display the following information for each customer name, account number, street, city, old balance, current payment, new balance, account status.
(b) Write a 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! .....!
[7M + 8M]

5 What is the advantage of using arrays ? Give syntax for declaration , accessing and printing one - dimensional array ?
[15M]

6 (a) Write the syntax for opening a file with various modes and closing a file.
(b) Explain about file handling functions.
[7M + 8M]

7 Write a program to implement matrix multiplication using pointers.
[15M]

8 Write short notes on
(a) malloc and calloc
(b) Bitwise operators
(c) Union with example
[4M + 8M + 3M]

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

I B.Tech I Semester Regular Examinations, February 2011

C PROGRAMMING

(Common to All Branches)

Time: 3 hours **Max Marks: 75**

Answer any FIVE Questions
All Questions carry equal marks
****

1 (a) Define Algorithm.
(b) What is the use of flowchart?
(c) What are the different steps followed in the program development?
[3M + 4M + 8M]

2 (a) Describe about the Bitwise operators with suitable examples.
(b) Write a program to print the given number in words using switch statement
[8M + 7M]

3 (a) Explain the working of Unary Operator with example.
(b) Explain the working of Binary Operator with example.
(c) Explain the working of assignment Operator with example.
(d) Explain the working of ternary Operator with example.
[3M + 4M + 4M + 4M]

4 (a) Write a program and explain the working of malloc and calloc function.
(b) Define Structure and write the general format for declaring and accessing members.
[7M + 8M]

5 (a) Write a `C' program to print Pyramid of Digits in the Reverse order.
(b) Write a `C' program to convert Binary Number to Decimal Number
[7M + 8M]

6 (a) Write the syntax for opening a file with various modes and closing a file.
(b) Explain about file handling functions.
[7M + 8M]

7 (a) What is control statement? Explain briefly about iterative statements.
(b) Write a program to sort a set of strings using string handling functions.
[7M + 8M]

8 Write short notes on
(a) Pointers
(b) Conditional and Unconditional statements
(c) Logical operators
[5M + 6M + 4M]