Subject Code: R13105/R13 **Set No - 1**

I B. Tech I Semester Supplementary Examinations Sept. - 2014

COMPUTER PROGRAMMING

(Common to CE, ME, CSE, PCE, IT, Chem E, Aero E, AME, Min E, PE, Metal E)

Time: 3 hours **Max. Marks: 70**

Question Paper Consists of **Part-A** and **Part-B**
Answering the question in **Part-A** is Compulsory,
Three Questions should be answered from **Part-B**

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PART-A

1.(i) Differentiate between variable and constant?
(ii) Write program to find whether the given no is Armstrong or not.
(iii) Write short notes on storage classes.
(iv) Write a program to swap two numbers using pointers.
(v) Discuss about shift operator with example.
(vi) Write a program to read a text file and count the no of blanks in the text file.

[3+4+4+4+3+4]

PART- B

2.(a) What are the steps involved in program development process? Explain.
(b) Discuss about the relational and logical operators.

[8+8]

3.(a) What is Array? Discuss about the initialization and accessing of array elements for 1D and 2D arrays.
(b) Write a program to check whether the given string is palindrome or not.

[8+8]

4.(a) What is recursion? How it is implemented? Explain with example.
(b) Write a c program for Tower's of Hanoi using recursion.

[8+8]

5.(a) How to define and initialize structures? How to access structure elements?
(b) Discuss about the enum data type with example.

[8+8]

6.(a) Differentiate between binary and text file?
(b) Write a program to copy contents of one file to another file.

[8+8]

7.(a) Explain about the procedure for creating and running programs.
(b) Discuss about standard library functions with examples.

[8+8]

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Subject Code: R13105/R13 **Set No - 2**

I B. Tech I Semester Supplementary Examinations Sept. - 2014

COMPUTER PROGRAMMING

(Common to CE, ME, CSE, PCE, IT, Chem E, Aero E, AME, Min E, PE, Metal E)

Time: 3 hours **Max. Marks: 70**

Question Paper Consists of **Part-A** and **Part-B**
Answering the question in **Part-A** is Compulsory,
Three Questions should be answered from **Part-B**

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PART-A

1.(i) Is there any difference between pre increment and post increment? Explain with examples?
(ii) Write program to check the symmetricity of a Matrix.
(iii) Write short notes on parameter passing mechanisms.
(iv) What is dangling memory? Explain.
(v) What are self referential structures? Explain.
(vi) Write a program to read a text file and Print the first character in each word into upper case.

[4+4+4+3+3+4]

PART- B

2.(a) Discuss about different computer languages with examples.
(b) Draw flow chart for finding facts for a given number.

[8+8]

3.(a) Differentiate between else-if and switch? Explain with an example.
(b) write a c program for matrix multiplication with sufficient conditions.

[8+8]

4.(a) Explain about the different ways of creating functions with examples.
(b) Write a c program to print Fibonacci series using recursion. [8+8]

5.(a) What is the need of nested structures? Explain with one example.
(b) Write a program to display student details using pointers to structure.

[8+8]

6.(a) Discuss about formatted I/O with suitable examples.
(b) Write a program to merge two files into single file.

[8+8]

7.(a) Explain about user defined functions.How they are different from library functions?
(b) Write a program to sort a list of elements and trace with an example.

[8+8]

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Subject Code: R13105/R13 **Set No - 3**

I B. Tech I Semester Supplementary Examinations Sept. - 2014

COMPUTER PROGRAMMING

(Common to CE, ME, CSE, PCE, IT, Chem E, Aero E, AME, Min E, PE, Metal E)

Time: 3 hours **Max. Marks: 70**

Question Paper Consists of **Part-A** and **Part-B**
Answering the question in **Part-A** is Compulsory,
Three Questions should be answered from **Part-B**

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PART-A

1.(i) Explain about the precedence rules with examples.
(ii) Write a program to find second smallest element in the given array.
(iii) Write a program to print factorial of a given number using recursion.
(iv) What is dynamic memory allocation? Explain.
(v) Explain about the nested structures.
(vi) Write a program to find whether the given string present in the main string or not.

[4+4+3+4+3+4]

PART- B

2.(a) Write the structure of the C Program.
(b) Draw a flow chart for the prime number program.

[8+8]

3.(a) What is an array? How to initialize 1D and 2D arrays? Discuss about the advantages and disadvantages of arrays.
(b) Write a C program to print pascal triangle.

[8+8]

4.(a) Explain about different parameter passing mechanisms with examples.
(b) Write C program's for swapping of 2 numbers using different parameter passing mechanisms

[8+8]

5.(a) Is there any difference between structure and Union? If Yes, Explain.
(b) How structure elements are passed to function arguments? Discuss with an example.

[8+8]

6.(a) Discuss about file I/O operations.
(b) Write a program to replace the given word with CPROG in a given file.

[8+8]

7.(a) Discuss about header files and C Preprocessor.
(b) Write a program to sort given numbers using arrays.

[8+8]

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Subject Code: R13105/R13 **Set No - 4**

I B. Tech I Semester Supplementary Examinations Sept. - 2014

COMPUTER PROGRAMMING

(Common to CE, ME, CSE, PCE, IT, Chem E, Aero E, AME, Min E, PE, Metal E)

Time: 3 hours **Max. Marks: 70**

Question Paper Consists of **Part-A** and **Part-B**
Answering the question in **Part-A** is Compulsory,
Three Questions should be answered from **Part-B**

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PART-A

1.(i) What is meant by type casting? Explain.
(ii) Explain about break and continue with an example.
(iii) Write a program to find GCD of 2 numbers using functions.
(iv) Write a program to find whether the given no is Armstrong number or not using command line arguments.
(v) Differentiate between structure and union?
(vi) Write a program to read a text file and print frequency count of the given word.

[4+4+3+4+3+4]

PART- B

2.(a) What is flow chart? Draw the flow chart for the biggest number among 3 numbers.
(b) Write a C program that illustrates the conditional operator

[8+8]

3.(a) How to initialize strings? Explain about various string handling functions.
(b) Write a program to print the given string in reverse order.

[8+8]

4.(a) What is pointer? Discuss about pointers to pointers with examples.
(b) Write a program to insert and delete an element from the given array.

[8+8]

5.(a) What are self referential structures? Explain with one example.
(b) Write a C Program to calculate grade, average marks and Total marks in a class of 60 Students.

[8+8]

6.(a) What is a file and what are different type of files? Explain.
(b) Write a program to copy one file into another file.

[8+8]

7.(a) Explain about different storage classes with examples.
(b) Write a program to check whether the given element is there in the array or not.

[8+8]

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