

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**

\*\*\*\*\*

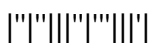
**PART-A**

- 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]



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**

\*\*\*\*\*

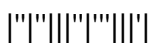
**PART-A**

- 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 factors 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]



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**

\*\*\*\*\*

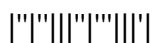
**PART-A**

- 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]



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**

\*\*\*\*\*

**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]

