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

I B. Tech I Semester Supplementary Examinations Aug. - 2015

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.(a) Draw flow chart for the biggest of three no's.
(b) What do you mean by iteration? Give examples.
(c) Discuss about the keyword auto with examples.
(d) Write a program to swap two numbers without using temporary variable.
(e) Explain about the importance of the typedef with examples.
(f) write a program to copy one file contents into another file.

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

PART- B

2.(a) Differentiate between pre increment, post increment and decrement operators with examples.
(b) Write a program to display pascal triangle.

[8+8]

3.(a) What is the need of the iterations and selection? Explain each of the statements with examples.
(b) Write a program to find the GCD of the given two numbers

[6+10]

4.(a) Write short notes on user defined functions.
(b) Explain about standard library functions.
(c) Discuss about c preprocessor with examples.

[4+6+6]

5.(a) What is pointer? Explain about pointers to pointers.
(b) Write a program to find whether the given number is strong number or not by using command line arguments.

[8+8]

6.(a) Discuss about self referential structures with examples.
(b) Write a program to print 60 students' total marks and grades.

[8+8]

7.(a) Explain about different types of files with examples.
(b) Write a program to merge two files into another file.

[8+8]

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

I B. Tech I Semester Supplementary Examinations Aug. - 2015

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.(a) Draw flow chart for the Armstrong no.
(b) Is do while and while do are same? Compare.
(c) Discuss about the keyword Register with examples.
(d) Write a program to swap two numbers using pass by address.
(e) What are self refined structures? Discuss.
(f) Explain about the fscanf system call with examples.

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

PART- B

2.(a) Discuss about the computer languages with examples.
(b) Write a program to calculate the series 1+1/2 +1/3+1/4+1/5….1/n

[8+8]

3.(a) How do you differentiate between switch and else-if? Explain with examples.
(b) Write a program which performs arithmetic operations.

[8+8]

4.(a) What is recursion? Explain with examples.
(b) Write a recursive program for the GCD.

[8+8]

5.(a) What is character pointer? How to initialize pointer variables? Discuss.
(b) Write a program to find whether the given number is prime number or not by using command line arguments.

[8+8]

6.(a) Explain about the bit-wise operators.
(b) Write a program to print the one's compliment for the given number.

[8+8]

7.(a) Discuss about input and output operations of files.
(b) Write a program for copy one file into another file

[8+8]

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

I B. Tech I Semester Supplementary Examinations Aug. - 2015

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.(a) Draw flow chart for the factorial of a number.
(b) If break was not given in the switch statement, what happens? Explain with example.
(c) Discuss about the keyword Static with examples.
(d) Explain about the passing parameters using addresses.
(e) How masking is done? Discuss with examples.
(f) Explain about the fprintf system call with examples.

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

PART- B

2.(a) Discuss about relational and logical operators with examples.
(b) write a program to print the following series on screen.

```
1
1  2
1  2  3
1  2  3  4
1  2  3  4  5
```

[8+8]

3.(a) What is array? How to create and access array elements? Explain.
(b) Write a program to print the symmetric matrix.

[6+10]

4. Explain about the towers of Hanoi problem and also give algorithm of towers of Hanoi.

[16]

5.(a) What is dynamic memory allocation? Discuss with examples.
(b) Write a program to swap two numbers using pointers.

[8+8]

6.(a) What are the advantages of structures and unions? Discuss.
(b) How to access structure elements? Discuss.
(c) Write a program to print the binary number for the given digit number.

[6+4+6]

7.(a) Discuss about formatted I/O
(b) Write a program to print the each letter of the first word into upper case.

[8+8]

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

I B. Tech I Semester Supplementary Examinations Aug.- 2015

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.(a) Draw the flow chart for swapping two numbers.
(b) Differentiate between break and continue.
(c) Discuss about the keyword extern with examples.
(d) How to pass the parameters to other functions? Discuss.
(e) Explain about shift operator with examples.
(f) Differentiate between text files and binary files.

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

PART- B

2.(a) Define conditional expressions with examples.
(b) write a program to print the following series on screen.

```
1
2  1
3  2  1
4  3  2  1
5  4  3  2  1
```

[8+8]

3.(a) What is string? Explain different string functions with examples.
(b) write a program to find whether the given string is palindrome or not.

[10+6]

4. What are different storage classes? Explain each of them with examples.

[16]

5.(a) What are command line arguments? Give examples.
(b) Write a program for matrix multiplication using pointers

[8+8]

6.(a) Differentiate between structures and unions.
(b) Write a program to calculate the Gross and net salaries of the employee using the structure (consider DA is 30% of basic, HRA is 15% of basic and CCA is 2% of basic).

[8+8]

7.(a) Explain about the operations which can be performed on files.
(b) Write a program to display file records on the screen.

[8+8]

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