Set No - 1

I B. Tech II Semester Supplementary Examinations Feb. - 2015
COMPUTER PROGRAMMING
(Common to ECE, EEE, EIE, Bio-Tech, E Com.E, Agri. 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 a flowchart? Explain with one example.
  (ii)   Discuss about switch statement with an example.
 (iii)   Explain about extern keyword with example.
 (iv)   How pointer can be used for accessing multi dimensional arrays? Discuss.
  (v)   Differentiate between structure and union.
 (vi)   Write a program to copy one file into another file.

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

PART- B

2.(a)   Explain about type conversions. Why there is a need to have them? Explain with suitable example.
 (b)   Write a program to find ncr value.

                                                      [8+8]

3.(a)   How to declare string? Differentiate between character array and strings?
 (b)   Write a program to find whether the given string is present in the main string or not and also find the no of blanks in the main string.

                                                     [6+10]

4.(a)   Explain about different parameter passing mechanism with examples
 (b)   Explain how to pass one dimensional arrays to functions.

                                                      [8+8]

5.(a)   Discuss about character pointers and functions with examples.
 (b)   Write a program to swap two numbers using copy by address.

                                                      [8+8]

6.(a)   How to declare and initialize structures? Explain with examples.
 (b)   Write a program to calculate the grade of the student in a class of 60 students using structures.

                                                      [8+8]

7.(a)   What operations can be performed on files? Explain.
 (b)   Write a program to merge two files into a single file

                                                      [8+8]

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PART-A

1.(i)   How to compile a given file in linux? Explain with one example.
  (ii)   Explain about break and continue.
  (iii) Explain about static keyword with an example.
  (iv) What is indirect pointer? Dicuss.
  (v)   What is typedef? Explain with example.
  (vi) Write a program to read a text file and convert the file data into upper case.

[2+4+4+4+4+4]

PART- B

2.(a)   What is data type? Explain about different data types with examples.
  (b)   Write a program to find GCD between two given numbers.

[8+8]

3.(a)   Differentiate between while and for statement with an example.
  (b)   Write a program to print pascal triangle.

[8+8]

4.(a)   What is recursion? Explain.
  (b)   Write a recursive function to generate fibonacci series.

[8+8]

5.(a)   How to pass pointer variables as function arguments? Explain with examples.
  (b)   Write a program to illustrate pointer variables as function arguments.

[8+8]

6.(a)   Explain about the bitfields.
  (b)   Write a program to print the binary equivalent for a given number using bitfields.

[8+8]

7.(a)   how to read from and write to a file? Explain with examples.
  (b)   Write a program to find the no of occurrences of a given word in a given file

[8+8]

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PART-A

1.(i)   Is there any difference between pre-increment and post-increment? Explain
  (ii) Explain about nested if.
  (iii) Explain about auto keyword with an example.
  (iv) What is dangling memory? Discuss.
  (v)   What are nested structures? Explain..
  (vi) Write a program to read a text file and count the number of words and lines in the text file.

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

PART- B

2.(a)   What is algorithm? Write an algorithm for the finding the given no is Armstrong no or not?
  (b)   Write a C program for printing Fibonacci series.

[8+8]

3.(a)   What is String? Explain about string manipulation operations with examples.
  (b)   Write a program to find whether the given string is palindrome or not.

[8+8]

4.(a)   What is function? What are the different ways for writing functions? Explain.
  (b)   Write a program for Towers of Hanoi.

[8+8]

5.(a)   Explain about dynamic memory management.
  (b)   Write a program for illustrating the pointer, indirect pointers.

[8+8]

6.(a)   Explain about self referential structures.
  (b)   Write a program to create a linked list using self referential structures.

[8+8]

7.(a)   What operations that can be performed on binary files? Explain.
  (b)   Write a program to print each word first letter into upper case in a given file.

[8+8]

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PART-A

1.(i)   Write an algorithm for finding biggest of among given three no's.
  (ii)   What is array? How to store elements in an array?
  (iii) Explain about register keyword with an example.
  (iv)   Explain about command line arguments
  (v)   Discuss about array of structures.
  (vi)   What is formatted I/O? Discuss

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

PART- B

2.(a)   What is identifier? What are the rules for identifier?
  (b)   Explain about relational and logical operators?
  (c)   Write a C program that illustrates the arithmetic expressions.

                                                                          [4+6+6]
3.(a)   Differentiate between entry- control and exit-control loops with an example.
  (b)   Write a program to print symmetry of a matrix on the screen.   [8+8]

4.(a)   Explain about C Preprocessor with an example.
  (b)   Write a program to find the given no is strong no or not using functions.

                                                                          [8+8]
5.(a)   What is pointer? How to initialize and declare pointer variables? Explain with examples.
  (b)   write a program to swap to numbers using pointers and functions.

                                                                          [8+8]
6.(a)   What are the advantages of union over structures? Explain both with examples.
  (b)   Write a program to find one's compliment for the given no.

                                                                          [8+8]
7.(a)   Differentiate between text files and binary files? Discuss about the concept of a file.
  (b)   Write a program to open a file and read the file and print the file contents in reverse order
                                                                          [6+10]

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