Set No - 1

I B. Tech II Semester Regular/Supplementary Examinations May - 2016
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**
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PART-A

1. (a) Define high level language and low level language.
   (b) Explain about the break and continue with example.
   (c) Define function.
   (d) What is dangling memory?
   (e) What are the applications of structures?
   (f) Differentiate between binary file and text file.

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

PART–B

2. (a) What is the difference between the post increment and pre increment operators? What is the output of the following if k=5,
      i=++k,   j=k++,   k++,   ++k;
   (b) What are variables and constants? What are the rules for declaring the variables?

[8+8]

3. (a) Explain about different string functions which can be performed on strings.
   (b) Write an algorithm to find whether the given string is palindrome or not.
   (c) Write a program for adding two matrix's.

[3+8+5]

4.   Explain about different parameter passing mechanisms with examples.

[16]

5. (a) What is pointer and indirect pointer? Explain with examples.
   (b) Write a program to swap two numbers using pointers.

[8+8]

6. (a) Explain about the logical and shift operators with examples.
   (b) Write a program to sort the elements in a linked list.

[8+8]

7. (a) Explain about different file operations that can be performed on files.
   (b) Write a program to copy one file into another file.

[8+8]

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Set No - 2

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COMPUTER PROGRAMMING
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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. (a) Differentiate between compiler and interpreter.
   (b) What is nested if? Give examples.
   (c) Write short notes on standard library functions.
   (d) What are command line arguments?
   (e) Define nested structures.
   (f) How to read data from and write data to a file?

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

PART–B

2. (a) Explain about relational and logical operators with examples.
   (b) Write a program for the printing the following pattern on the screen
   ```
   1
   1   2
   1   2   3
   1   2   3   4
   ```
   [8+8]

3. (a) Differentiate between switch and else-if.
   (b) Write a program to find smallest and largest numbers in a given array.
   (c) Write a program to multiply two matrix's.

   [3+8+5]

4.   Explain about different storage classes with examples.

   [16]

5. (a) Discuss about character pointers with examples.
   (b) Write a program to print command line arguments on the screen.

   [8+8]

6. (a) How to declare a structure and initialize values for structure members?
   (b) Write a program to insert an element into a linked list at front.

   [8+8]

7. (a) Explain about the input and output operations of a file.
   (b) Write a program to open a file and to print it's contents on screen.

   [8+8]

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*****

PART-A

1. (a) Differentiate between compiling and linking.
   (b) Write a program to find the 2^n value.
   (c) What is preprocessor?
   (d) How to pass pointer variables to functions?
   (e) What is the importance of typedef? Explain.
   (f) What are different types of files? Explain.

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

PART–B

2. (a) Explain about arithmetic and relational operators with examples.
   (b) Draw the flowchart for finding whether the given no is Armstrong no or not.

   [8+8]

3. (a) What is matrix? How arrays are used for declaring the matrix?
   (b) What is multi-dimensional array? How to access multi-dimensional arrays?
   (c) Write a program to print the following matrix
   [A   B   C   D
     E   F   G   H
     I   J   K   L
     M   N   O   P]

   [3+8+5]

4. (a) How to declare a function and differentiate calling and called function? Explain with an example program.
   (b) Write a recursive program for finding the nth Fibonacci value, using functions.

   [8+8]

5.   What is dynamic memory allocation? Explain with example.

   [16]

6. (a) Explain the differences between structure and union and write a program to find sum of marks in three subjects for a student using structures.
   (b) Explain in short different bit-wise operators with example.

   [8+8]

7. (a) Write short notes on formatted I/O.
   (b) Write a program to merge two files into one file.

   [8+8]

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|"|'"||'||'"|||

Set No - 4

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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. (a) Define algorithm and flowchart.
   (b) How to store data in arrays? Give examples.
   (c) What is recursion?
   (d) What are the applications of pointers?
   (e) Define self-referential structures.
   (f) What is file? How to open a file?

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

PART–B

2. (a) What is data type? What is the size and range of each data type? Explain with examples.
   (b) Write an algorithm for the finding biggest of three numbers.

[8+8]

3. (a) What is character array? Give examples.
   (b) Write a program to print pascal triangle
   (c) Write an algorithm for finding whether the given no is strong no or not.

[3+8+5]

4. (a) Differentiate user defined and predefined function. Explain with one example.
   (b) How to pass array variables to functions? Explain with examples.

[8+8]

5. (a) What is pointer? What are the advantages and disadvantages of pointers?
   (b) What is formal and actual parameter? How to pass variables by their address?

[8+8]

6. (a) Differentiate between structures and unions, and write the syntax for nested structures.
   (b) Write a program to create a linked list.

[8+8]

7. (a) Explain the system calls fread and fwrite with examples.
   (b) Write a program to count no of words and lines in a file.

[8+8]

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