

Subject Code: R13205/R13

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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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) 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? Discuss.
- (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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Set No - 3

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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.(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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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.(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]

