

I/IV B.Tech. DEGREE EXAMINATIONS, NOV/DEC-2017

Second Semester

CSE/ECE/EEE

PROBLEM SOLVING WITH C

Time: Three Hours

Maximum marks:60

Answer Question No.1 Compulsory

12X1=12 M

Answer ONE Question from each Unit

4X12=48 M

1. Write short notes on the following
 - a) Purpose of external ports
 - b) Importance of Hard disk
 - c) Definition of flow chart
 - d) Use of Break statement
 - e) What is scope of variable
 - f) What is Recursive function
 - g) Importance of pointers
 - h) Uses of arrays
 - i) Use of Pointer arithmetic
 - j) Purpose of user defined data types
 - k) Need of command line argument
 - l) Use of file descriptor

UNIT-I

2.
 - a) Draw block diagram of digital computer? Give characteristics and applications of computer?
 - b) Write characteristics of an algorithm in detail.

(OR)

3.
 - a) What are unary operators? Explain example for each.
 - b) Explain the type casting with suitable example.

UNIT-II

4.
 - a) Suppose a break statement is included within the innermost of several nested control statements. What happens when break statement is executed? Give an example.
 - b) Distinguish between call by value and call by reference with suitable example.

P.T.O

(OR)

5. a) Write a C program to illustrate the method of sending an entire structure as a parameter to a function.
- b) Write a program to solve the Towers of Hanoi problem using recursion.

UNIT-III

6. a) Write a C program to find the average in a given array of elements and also find minimum and maximum elements of that array.
- b) Explain about storage classes with suitable example.

(OR)

7. a) Write a 'C' program using pointers to determine the length of a character string.
- b) Write a C program that uses a pointer as a function argument.

UNIT-IV

8. a) Write a C program to illustrate the comparison of structure variables.
- b) A structure contains name, age, designation, and salary. Using this structure, write a C program to read this information for one person from the keyboard and print the same on the screen.

(OR)

9. a) How does an append mode differs from a write mode. Give an example.
- b) Explain the way of defining, opening and closing a file. Also write the different modes of operation.



I/IV B. Tech. DEGREE EXAMINATIONS, JUNE / JULY 2017

SECOND SEMESTER

BT / CSE / ECE / EEE

PROBLEM SOLVING USING C

Time : **Three Hours**

Maximum Marks : **60**

Answer Question No. 1 Compulsory.

6x2=12 M

Answer ONE question from each Unit.

4x12=48 M

1. Explain the following.

- a) PCI card.
- b) Type casting.
- c) Recursion.
- d) Command line arguments.
- e) Pre-processor directive.
- f) Call by reference.

UNIT - I

2. a) Describe the classification of Computers.

b) Discuss about BIOS commands.

(OR)

3. a) Describe the structure of a C program.

b) Explain various operators in C and give their precedence.

UNIT - II

4. Explain various storage classes in detail.

(OR)

5. Write a recursive program to implement Towers of Hanoi problem.

P.T.O.

UNIT - II

6. a) Discuss various string functions.
- b) Write a program to Concatenate two strings without using string functions.

(OR)

7. a) Discuss about Pointer expressions.
- b) Discuss about Pointers and Arrays.

UNIT - IV

8. a) Discuss about Structures and arrays.
- b) Explain user defined data types.

(OR)

9. a) Describe the structure of a File.
- b) Explain various File handling functions.

