

I/IV B. Tech. DEGREE EXAMINATIONS, DECEMBER - 2016

Second Semester

BT / CSE / ECE / EEE

PROBLEM SOLVING USING 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. a) PCI Card.
- b) Algorithm.
- c) 'C' character set.
- d) External port.
- e) If statement.
- f) Recursion.
- g) Automatic variables.
- h) Strcat().
- i) Pointer arithmetic.
- j) Structure.
- k) Pointer to structure.
- l) feof().

UNIT - I

2. Discuss the following :
 - a) Precedence and associativity of operators.
 - b) Symbols used in Flowchart.

(OR)

3. Explain the following :
 - a) BIOS commands.
 - b) Type casting and type coercion.

P.T.O.

UNIT - II

4. a) Write a program to generate fibonacci sequence using loops.
b) Write a program to find GCD using recursion.

(OR)

5. a) Discuss about types of functions.
b) Discuss while loop with example.

UNIT - III

6. a) Discuss about 2d-arrays.
b) Write a program to find product of two matrices.

(OR)

7. Explain the following :
a) Pointer parameters to functions.
b) Pointers and arrays.

UNIT - IV

8. Explain the following :
a) Types of files.
b) Structure definition, declaration & initialization.

(OR)

9. a) Write a program to read and display contents of a file.
b) Discuss about user defined data types.



I/IV B. Tech. DEGREE EXAMINATIONS, APRIL / MAY - 2016**SECOND SEMESTER****BT / CSE / ECE / EEE****PROBLEM SOLVING USING 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. Answer the following.

- a) Data types.
- b) BIOS.
- c) Expressions.
- d) Preprocessor.
- e) Function.
- f) Recursion.
- g) Pointer expression.
- h) Initialization of 2d-array.
- i) File.
- j) User defined data types.
- k) Ferror().
- l) Unions.

UNIT - I

2. a) Describe the structure of 'C' program.
- b) Explain the generations of a computer.

(OR)

3. a) Discuss logical operators with example.
- b) Explain the classification of computer.

UNIT - II

4. a) Explain switch statement with example.
- b) Write a program to implement towers of Hanoi problem using recursion.

(OR)

5. Explain different types of parameter passing mechanisms with examples.

UNIT - III

6. a) Discuss about string handling functions.
- b) Write a program to find sum of array.

(OR)

7. a) Explain the concept of pointers in detail.
- b) Write a program to find length of given string.

UNIT - IV

8. Define file. Explain different types of file handling functions with example.

(OR)

9. Explain the following.
 - a) Command line arguments.
 - b) Structures and arrays.

