Hall Ticket Number:

I/IV B.Tech (Regular / Supplementary – Repeat Exam) DEGREE EXAMINATION
January, 2021
Second Semester COMPUTER PROGRAMMING WITH C
Time: Three Hours Maximum: 60 Marks

Answer All Questions from Part - A. (1X12= 12 Marks)
Answer ANY FOUR questions from Part - B (4X12= 48 Marks)

Part - A

1. Answer all questions (1X12= 12 Marks)
   a) Write the syntax for Conditional Operator.
   b) What is Type casting?
   c) What are the symbols used in Flowchart?
   d) What is an array?
   e) What is the difference between 1-D and 2-D arrays?
   f) List out String handling functions.
   g) Differentiate auto and static storage classes.
   h) Where Recursion is used?
   i) What is void pointer?
   j) Differentiate Structure and Union.
   k) What is enumerated data type?
   l) Write syntax for opening and closing a file.

Part - B

2. a) Describe the various types of Operators in C language along with its priority. 8M
3. b) Write a program to find the largest of the three given numbers. 4M
4. a) Explain bitwise operators with examples. 8M
   b) Write a program to find whether the given number is even or odd. 4M
5. a) Explain various loop control statements in C. 6M
   b) Write a program to find whether a given number is prime or not. 6M
6. a) Explain different types of arrays with an example. 6M
   b) Write a program to reverse a string. 6M
7. a) Explain different Parameter passing mechanisms with examples. 8M
   b) Write a program to perform linear search using functions. 4M
8. a) Explain Dynamic memory allocation functions. 6M
   b) Write a program for arranging numbers in ascending order using functions. 6M
9. a) What are the different ways to access the members of structure elements in c? Give example for each case. 6M
   b) Write a program to compute addition and multiplication on complex numbers. 6M
10. a) Explain fseek() and ftell() with suitable examples. 6M
    b) Write a program to display no of vowels in a given text file. 6M

14CP206

Hall Ticket Number:

I/IV B.Tech DEGREE EXAMINATION

November 20

Second Semester **Problem Solving with Programming**

Scheme of Evaluation

Time: Three Hours **Maximum: 60 Marks**

Answer Question No.1 compulsorily. **(1X12= 12 Marks)**

Answer ONE question from each unit. **(4X12= 48 Marks)**

1. **Answer all questions** **(1X12= 12 Marks)**

a) Write the syntax for Conditional Operator.
syntax of Conditional Operator -1M

b) What is Type casting?
Type casting -1M

c) What are the symbols used in Flowchart?
Flowchart Symbols -1M

d) What is an array?
Array Definition -1M

e) What is the difference between 1-D and 2-D arrays?
difference between 1-D and 2-D arrays -1M

f) List out String handling functions.
String handling functions -1M

g) Differentiate auto and static storage classes.
auto and static storage classes. -1M

h) Where Recursion is used?
Recursion -1M

i) What is void pointer?
Void Pointer -1M

j) Differentiate Structure and Union.

Structure and Union difference -1M

k) What is enumerated data type?

enum data type -1M

l) Write syntax for opening and closing a file.

File opening & closing -1M

UNIT I

2. a) Describe the various types of Operators in C language along with its priority. 8M

Types of Operators -6M

Priority -2M

b) Write a program to find the largest of the three given numbers. 4M

Program -4M

(OR)

3. a) Explain bitwise operators with examples. 8M

Six bitwise operators -6M

b) Write a program to find whether the given number is even or odd. 4M

Program -4M

UNIT II

4. a) Explain various loop control statements in C. 6M

Three loops -6M

b) Write a program to find whether a given number is prime or not. 6M

Program -4M

(OR)

5. a) Explain different types of arrays with an example. 6M

1-D, 2-D & Multi Dimensional arrays -6M

b) Write a program to reverse a string. 6M

Program -6M

UNIT III

6. a) Explain different Parameter passing mechanisms with examples. 8M

call by value & call by reference -8M

b) Write a program to perform linear search using functions. 4M

Program -4M

(OR)

7. a) Explain Dynamic memory allocation functions. 6M

Dynamic memory allocation functions -6M

b) Write a program for arranging numbers in ascending order using functions. 6M

Program -6M

UNIT IV

8. a) What are the different ways to access the members of structure elements in c? Give example for each case. 6M

Ways to access the members of structure elements -4M

Example -2M

b) Write a programto compute addition and multiplication on complex numbers. 6M

Program -6M

(OR)

9. a) Explain fseek() and ftell() with suitable examples. 6M

fseek() - 4M

ftell() -2M

b) Write a program to display no of vowels in a given text file. 6M

Program -6M