

Exam.Code:0905
Sub. Code: 6189

2023
B.E. (Electronics and Communication Engineering)
First Semester
CS-104: Computer Programming

Time allowed: 3 Hours

Max. Marks: 50

NOTE: Attempt five questions in all, including Question No. 1 which is compulsory and selecting two questions from each Section.

x-x-x

- I (a) Define Typecasting . List its types (5 X 2)
- (b) Describe the term Inheritance in OOPS.
- (c) What is pointer to array? How it is defined?
- (d) List different types of Bitwise Operators.
- (e) Write an algorithm to print prime numbers from 1-100

Section -A

- II (a) What is LINUX Shell ? Explain any 5 LINUX Commands. (5 , 5)
- (b) What are Strings ? Write a program to convert lower case string to Proper Case string.
(Hint:Proper Case: First letter of each word is capital)
- III (a) What is the difference between if-else and switch-case? Write a program to design Calculator (+,-,*,/) using switch-case (5 , 5)
- (b) Write a program to find sum of diagonals of a Matrix.
- IV (a) Write the Difference between (i) Call by Value and Call By Reference (5 , 5)
(ii) Static and Automatic Storage Class
- (b) What are pointers ? How they are declared ? Write a program to find Power(a^b) using Pointers.

P.T.O.

(2)

Section-B

- V (a) What are array of structures ? How Structures can be passed as an arguments to function. Show it with example. (5,5)
- (b) Create a structure Student (Rollno ,Name , Marks).Enter 10 records.
Write a function to search record by Rollno.
- VI (a) Define fopen and fclose function. Write a program to join 2 files end to end using Command line arguments. (5,5)
- (b) Define fseek (), rewind() , fprintf() , fread().
- VII (a) Write a short note on Polymorphism and Encapsulation (5,5)
- (b) How classes are different from Structure.

x-x-x