2 4 OCT 2019

M.Sc. SEM - 03

Seat No.

Mathematics: Paper – 12 Code: 21602 Subject Title – Programming with – C

Time: 2 ½ Hours]			urs] [Total Ma	[Total Marks: 70	
Q.1	(A)		Discuss types of programing language.	[14]	
			OR		
Q.1	(A)	(i)	Differentiate compiler and interpreter.	[7]	
		(ii)	Draw a block diagram of computer and describe functions of	of [7]	
			its components.		
Q.1	(B)		Attempt any four out of six.	[4]	
		(1)	Secondary memory is classified as		
		(2)	Write a full form of 'EEPROM'.		
		(3)	What is CU?		
		(4)	List out output devices.		
		(5)	Write component of CPU.		
		(6)	Write types of programming language.		
Q.2	(A)		Explain C character set, tokens, keywords, variables an constants.	d [14]	
			OR		
Q.2	(A)	(i)	Explain scanf() statement with example.	[7]	
		(ii)	What is algorithm? Give one example.	[7]	
Q.2 ((B)		Attempt any four out of six.	[4]	
		(1)	What is integer arithmetic?		
		(2)	If the relation is true then it returns		
		(3)	What is the meaning of \a in C?		
		(4)	Assignment operator is used to		
		(5)	Explain any one data type.		
		(6)	If A=1 and B=0 then logical value of the expression !(A &c	&	
			B) will be (true/false)		
Q.3	(A)		Explain different types of if statement in detail.	[14]	
			OR		
Q.3	(A)	(i)	Explain different types of jumping statements.	[7]	
		(ii)	Explain for loop with example.	[7]	
Q.3	(B)	` /	Attempt any three out of five.	[3]	
		(1)	What is entry control loop and exit control loop?		
		(2)	Write syntax of ternary operator.		
		(3)	Given an example where break statement can be used.		
		(3)	Given an example where break statement can be used.		

- (4) A function *asin(x)* returns _____.
- (5) Write down the categories of C functions.
- Q.4 (A) Write a C program to find solution of system of linear [14] equations with two unknowns.

OR

- Q.4 (A) (i) Write a C program to input a year and determine whether it is a [7] leap year or not.
 - (ii) Write a C program to enter percentage and determine the class [7] obtained.
- Q.4 (B) Attempt any three out of five.
- [3]

- (1) How to declare a one dimensional array?
- (2) What is the use of %c?
- (3) What are the types of arrays in C?
- (4) How many times the following for loop will be executed?

(5) Which type of the array can be used in finding dot product of two 3-dimensional vectors?
