Autonomous Institution Affiliated to Visvesvaraya Technological University, Belagavi Approved by AICTE, New Delhi

## RYZZAZOOT

## Academic year 2022-2023 (Even Sem)

		PARTMENT OF ENCE AND ENGINEERING	
Date		Maximum Marks	50
Course Code	22CS23	Duration	90 Minutes
	PRINCIPLES OF	PROGRAMMING USING C	

SL	No.	PART-B	M	BT	CO
1	(a)	If John can drink one barrel of water in 6 days, and Mary can drink one barrel of water	04	L3	CO2
		in 12 days, how long would it take them to drink one barrel of water together?			
	(b)	Write an Algorithm and a Flowchart to Swap Two Numbers without using temporary	06	L2	COI
		variable.			
2	(a)	Write a C Program using switch to Simulate the Calculator using Arithmetic operators	06	L3	CO3
		(+, -, *, /, %) declaring the appropriate type of variables required for the evaluation.			
	(b)	Discuss the process of compiling and running a C program with neat diagram.	04	L1	CO1
3	(a)	Write a C program to enter the temperature T and print the following message according to the given temperature by using the else if ladder statement.  T<=0 "It is very cold"  0 <t<=15 "it="" 15<t<="30" cold"="" is="" t="" warm"="">30 "It is hot"</t<=15>	05	L3	CO3
	(b)	Write a C program to display the number in reverse order.	05	L3	CO3
	(5)	Ex: Input: Number is 1234, Output: Number in reverse order is 4321			
4	(a)	Explain the working of break and continue statements by writing a C program.	04	L2	CO2
	(b)	Give the priority and associativity of the operators and also show the step-wise	06	L2	CO2
	(-)	evaluation of the expression. $a + 2 > b \parallel !c \&\& a == d \parallel a - 2 <= e \text{ where } a=11, b=6,$			
		c=0, d=7 and e =5			
5	(a)	Find the value of a $>>$ 3 and a $<<$ 3, when a=7.	04	L2	CO2
	(b)	Demonstrate diagrammatically and justify conversion of types in a mixed expression	06	L3	CO2
		given below:			
		char c;			
		int j;			,
		float f;			
		double d,r;			
		r = (c*j)+(f/j)-(f+d);			