Vivekananda College of Engineering & Technology, Puttur
[A Unit of Vivekananda Vidyavardhaka Sangha Puttur ®]
Affiliated to VTU, Belagavi & Approved by AICTE New Delhi

CRM08	Rev 1.11	CSE	28/06/22

CONTINUOUS INTERNAL EVALUATION – 1

Dept: CSE Sem / Div:4A&B Sub: Object Oriented Concepts S Code:18CS45

Date:06/7/2022 Time: 9:30-11:00AM Max Marks: 50 Elective: N

Note: Answer any 2 full questions, choosing one full question from each part.

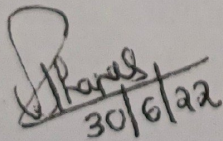| QN	Questions	Marks	RBT	CO's
	PART A			
1 a	Explain function overloading. Write a C++ program to compute area of square, circle, triangle by implementing function overloading. Call these functions from main with suitable inputs.	10	L2, L3	CO1
b	What is friend function? Explain how one can bridge two classes using friend function. Also write a C++ program to find the sum of two numbers in two different class using friend function.	10	L1, L3	CO1
c	List the difference between procedure oriented programming and object oriented programming.	5	L2	CO1
	OR			
2 a	What is constant member function and mutable data member? Explain. Write a C++ program to illustrate the use of constant member function and mutable data member.	10	L1, L3	CO1
b	What is an inline function? Explain the two methods of making function as inline. Also write a C++ inline function to find maximum of two numbers.	10	L1, L3	CO1
c	What is a reference variable? Explain. Write a program in C++ to swap two numbers and display the values	5	L1, L3	CO1

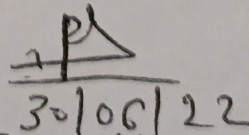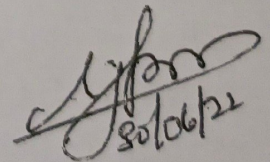before and after swapping using reference variable concept.

PART B

3 a	List and explain java buzzwords.	10	L2 CO2
b	What is constructor? Explain different types of constructors in C++ with programming example.	10	L1, CO1 L2
c	Explain namespace in C++ with suitable example. How do namespace help in preventing pollution of global namespace?	5	L2 CO2

OR

4 a	Write a short on: i) Type casting in java ii)>> and >>> iii) Bytecode iv)Short circuit logical operator v)One dimensional array in java	10	L2 CO2
b	Implement a C++ program to create a class called 'Employee' which contains 'name', 'designation', 'empid' and 'basicSalary' as data members and read() and write() member functions. Using this class, read and write six employee information from main() method.	10	L3 CO1
c	Write a java program to sum only first five elements of the array using for each loop.	5	L3 CO2

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Prepared by: Prof. Thapaswini P S, Prof. Pramod Kumar P M

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