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G. VENKATASWAMY NAIDU COLLEGE (AUTONOMOUS), KOVILPATTI – 628 502.



UG DEGREE END SEMESTER EXAMINATIONS - NOVEMBER 2024.

(For those admitted in June 2021 and later)

PROGRAMME AND BRANCH: B.Sc., PHYSICS

SEM	CATEGORY	COMPONENT	COURSE CODE	COURSE TITLE
V	PART - III	CORE	U21PH509	PROGRAMMING IN C++

Date & Session: 08.11.2024 / FN

Time: 3 hours

Maximum: 75 Marks

Course Outcome	Bloom's K-level	Q. No.	SECTION - A (10 X 1 = 10 Marks) Answer <u>ALL</u> Questions.
CO1	K1	1.	Which of the following is not a valid keyword in C++ language? a) while b) for c) witch d) do-while
CO1	K2	2.	The data elements in the structure are also known as what? a) objects b) members c) data d) objects & data
CO2	K1	3.	Which is more effective while calling the functions? a) call by value b) call by reference c) call by pointer d) call by object
CO2	K2	4.	If an argument from the parameter list of a function is defined constant then _____ a) It can be modified inside the function b) Error occurs c) It cannot be modified inside the function d) Segmentation fault
CO3	K1	5.	The variables declared inside the class are known as data members and functions are known as _____ a) data functions b) inline functions c) member functions d) member variables
CO3	K2	6.	A member function can be called by using its name inside another function of the same class, which is known as _____ of the member function a) sub-function b) sub-member c) nesting d) sibling
CO4	K1	7.	Which of the following operator cannot be overloaded? a) + b) ? : c) - d) %
CO4	K2	8.	A Constructor that does not have any parameters is called _____ Constructor. a) Custom b) Static c) Dynamic d) Default
CO5	K1	9.	By default, the members of the base class are _____ in the derived class. a) private b) public c) protected d) None of the above
CO5	K2	10.	In which type of inheritance do multiple derived classes share a single base class? a) Single Inheritance b) Multilevel Inheritance c) Multiple Inheritance d) Hierarchical Inheritance

Course Outcome	Bloom's K-level	Q. No.	SECTION – B (5 X 5 = 25 Marks) Answer <u>ALL</u> Questions choosing either (a) or (b)
CO1	K3	11a.	Write about derived data types in C++. (OR)
CO1	K3	11b.	Write about the difference in declaring variables in C and C++. With an example program.
CO2	K3	12a.	Explain the call by reference method in C++. (OR)
CO2	K3	12b.	Write a C++ program to print the prime numbers between two numbers.
CO3	K4	13a.	Simplify the concept of static data member with an example. (OR)
CO3	K4	13b.	Comment about the nesting of member function with an example program.
CO4	K4	14a.	Analyse the overloading of unary operator with an example program. (OR)
CO4	K4	14b.	With an example program explain the uses of copy constructors in a class.
CO5	K5	15a.	With an example program explain the concept of single inheritance. (OR)
CO5	K5	15b.	Conclude the importance of C++ stream.

Course Outcome	Bloom's K-level	Q. No.	SECTION – C (5 X 8 = 40 Marks) Answer <u>ALL</u> Questions choosing either (a) or (b)
CO1	K3	16a.	Write about the scope resolution operator with an example program. (OR)
CO1	K3	16b.	Write about the three types of control structures with an algorithm.
CO2	K4	17a.	Illustrate the uses of inline function with an example program. (OR)
CO2	K4	17b.	Find the factorial of a given number by using a function in C++.
CO3	K4	18a.	Comment about the pass by value and pass by reference method in calling the function with an example program. (OR)
CO3	K4	18b.	Write a C++ program to swap the private data of classes.
CO4	K5	19a.	Discuss about the overloading of binary operators with an example program. (OR)
CO4	K5	19b.	Discuss about the multiple constructors in a class. Also write a C++ program to add the two complex numbers.
CO5	K5	20a.	Discuss about the multiple inheritance with an example program. (OR)
CO5	K5	20b.	Discuss about the virtual base class with an example program.