MARRI LAXMAN REDDY
INSTITUTE OF TECHNOLOGY AND MANAGEMENT
(AN AUTONOMOUS INSTITUTION)
(Approved by AICTE, New Delhi & Affiliated to JNTUH, Hyderabad)
Accredited by NBA and NAAC with 'A' Grade & Recognized Under Section2(f) & 12(B)of the UGC act,1956

EMPOWERING THROUGH INNOVATIONS
MLRS

II B.Tech I Sem Supply End Examination, October 2021
OBJECT ORIENTED PROGRAMMING USING C++
(CSE & IT)

Time: 3 Hours.   Max. Marks: 70

Note: 1. Answer any FIVE questions.
      2. Each question carries 14 marks and may have a, b as sub questions.

1	a)	Explain all the basic features of Object Oriented Programming Language	7M	CO1	BL4
	b)	What is difference between while and do-while loop? Develop a C++ program to print numbers from 10 to 1 using while and do-while loop structures	7M	CO1	BL5
2	a)	What is an array? How it is declared and used in C++? Mention the limitations of an array.	7M	CO1	BL1
	b)	When do we use default arguments in functions? What are the rules need to be followed while using default arguments? Write code snippet which illustrate the above concept	7M	CO1	BL1
3	a)	Differentiate between Constructor and Destructor with the help of suitable example.	7M	CO2	BL2
	b)	Define constant member function. Why do we require constant member functions? Explain with a relevant program	7M	CO2	BL4
4	a)	Explain different forms of inheritance with suitable example for each.	7M	CO3	BL4
	b)	Define dynamic binding. How do we achieve dynamic binding C++ ? Explain the same with support of relevant program	7M	CO3	BL1
5	a)	Define a class named 'Bank Account' to represent following members: Data members :- - Account Number - Name of Depositor - Account Type - Balance Amount Member functions: - Initialize members - Deposit Amount - Withdraw Amount - Display Balance Write a C++ program to test the Bank Account class for 10 customers.	7M	CO2	BL3
	b)	What is the role of private, public and protected keywords in inheritance? In what way they are differ explain with code snippet	7M	CO3	BL1

6	a)	List out the error handling functions during file accessing available in C++. Explain them with the support of syntax and code snippet	7M	CO4	BL4
	b)	Develop a C++ program to overload an operator '+' to add two time objects which consists of hr, min and sec as data members	7M	CO4	BL5
7	a)	Develop a C++ program to count the number of occurrences of a given word in a given text file	7M	CO4	BL5
	b)	Define exception. What are the benefits of exception handling? How do we handle exceptions in C++? Mention the limitations	7M	CO5	BL1
8	a)	What is the syntax of block which can catch all exceptions? Where do we place this block? What are the benefits and restrictions for using this block? Support your answer with code snippet	7M	CO5	BL1
	b)	Develop a C++ program to raise an exception if the user given string is not "CSE"	7M	CO5	BL5

---oo0oo---