Code No: 153BK

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD B. Tech II Year I Semester Examinations, December - 2019 OBJECT ORIENTED PROGRAMMING USING C++ (Common to CSE, IT)

	This question paper contains two parts A and B. Max. Mar. Max. Mar.	SK
	Part A is compulsory which carries 25 marks. Answer all questions in Part A consists of 5 Units. Answer any one full question from each unit. Each question	
	10 marks and may have a, b as sub questions.	on carries
3 D _{1.a)}	Define arrays. Give example.	5 Marks
b)	Write about Class structure.	[2]
c) d)	Define class hierarchy. Define I/O using C functions.	[2]
e)	Write about Catching.	[2] [2]
f)	Give the features of C that are not in C++.	[3]
\bigcirc \bigcirc \bigcirc \bigcirc \bigcirc \bigcirc	What is the use of scope resolution operator in C++?	
$\bigcirc \ \ $	What are the virtual functions.	[3[
i)	Differentiate between function overloading and function templates.	[3]
j)	Discuss about try block.	[3]
	PART – B	
		Marks)
\bigcirc \bigcirc^2 ·	What is polymorphism? Explain with the help of an example.	[10]
3.a	Write a program to find whether the given number is a palindrome or not.	
b)	Explain about the Type conversion with an example.	[5+5]
	*	[]
4.a)	How can we create a class and an object? Explain with an example.	
b)	Explain about data abstraction.	[5+5]
5.a)	In which order the constructors and destructors are executed? Explain with an ex-	ample)
5.a) b)	Discuss about Static class members.	[5±5]
		[]
6.a)	How virtual functions can be used to implement runtime polymorphism? Describ	e.
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b)	Differentiate between static and dynamic binding with an example.	[5+5]
	Differentiate between static and dynamic binding with an example. OR Describe the mechanism of creating virtual functions in C++ with an example.	[5+5]

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8. Write a program to implement the operator loading concept by using unary of								
9.a) b) 10.	OR Discuss briefly about Error handling during file operations. Describe about Formatted I/O. Write a C++ program that illustrates exception handling with the help of keywords try, throws and catch. OR							
11.a) b)	Write a C++ program that catches any math exception.							
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