R18

Code No: 153BK

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

B. Tech II Year I Semester Examinations, February - 2024

OBJECT ORIENTED PROGRAMMING USING C++

(Common to CSE, IT, ECM)

Time: 3 Hours **Max. Marks: 75**

Note: i) Question paper consists of Part A, Part B.
ii) Part A is compulsory, which carries 25 marks. In Part A, answer all questions.
iii) In Part B, Answer any one question from each unit. Each question carries 10 marks and may have a, b as sub questions.

PART – A

(25 Marks)

1.a)	Illustrate the scope of variables.	[2]
b)	How would you compare the break and continue statements?	[3]
c)	How could you describe about ADT?	[2]
d)	How could you explain about destructor?	[3]
e)	Compare base vs derived classes.	[2]
f)	What is abstract class?	[3]
g)	List the output stream classes.	[2]
h)	What can you say about formatted I/O?	[3]
i)	State the try block.	[2]
j)	Identify the exception objects.	[3]

PART – B

(50 Marks)

2.a)	Discuss about parameter passing with suitable examples.	
b)	Can you assess the importance of preprocessor directives?	[5+5]
	OR	
3.a)	Explain about recursive function. And mention the importance of it.	
b)	Summarize the flow control statements.	[5+5]
4.a)	Illustrate the dynamic creation and destruction of objects with suitable example.	
b)	How would you show your understanding of information hiding?	[5+5]
	OR	
5.a)	Illustrate the friends to a class with suitable examples.	
b)	How would you recommend the constant member function?	[5+5]
6.a)	Demonstrate the base and derived class construction members with examples.	
b)	Extend the dynamic binding through virtual functions.	[5+5]
	OR	
7.a)	Examine the static and dynamic bindings with proper examples.	
b)	Explain about the pure virtual functions.	[5+5]

8.a) How could you determine overloading operators. And explain with suitable examples.
b) Summarize the stream classes hierarchy. [5+5]

OR

9.a) Examine the file stream classes with syntax.
b) Can you elaborate the formatted I/O? [5+5]

10.a) Define exception handling. Identify how you would handle the all exceptions.
b) How could you determine the exceptions specifications? [5+5]

OR

11.a) Explain about catching all exceptions.
b) Can you elaborate the rethrowing an exception with example. [5+5]

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