R16

Code No: 133BM

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD B.Tech II Year I Semester Examinations, April/May - 2018 OBJECT ORIENTED PROGRAMMING THROUGH JAVA (Common to CSE, IT)

Time: 3 Hours Max. Marks: 75

Note: This question paper contains two parts A and B.

Part A is compulsory which carries 25 marks. Answer all questions in Part A.

Part B consists of 5 Units. Answer any one full question from each unit. Each question carries 10 marks and may have a, b, c as sub questions.

PART- A

	IAKI-A	
		(25 Marks)
1.a)	What is abstract class? Give example.	[2]
b)	Explain the use of 'for' statement in Java with an example.	[3]
c)	Define a Package? What is its use in java? Explain.	[2]
d)	List out the benefits of Stream oriented I/O.	[3]
e)	How do we start and stop a thread?	[2]
f)	Write the complete life cycle of a thread.	[3]
g)	What is the benefit of Generics in Collections Framework?	[2]
h)	Differentiate between Enumeration and Iterator interface.	[3]
i)	What are the limitations of AWT?	[2]
j)	Why do applet classes need to be declared as public?	[3]
	PART-B	
		(50 Marks)
2.a)	What is inheritance and how does it help to create new classes quickly.	
b)	Describe different levels of access protection available in Java.	[5+5]
	OR	
3.a)	List the primitive data types available in Java and explain.	
b)	What is polymorphism? Explain different types of polymorphisms with examples.[5+5]	
4.a)	What is an interface? What are the similarities between interfaces and classes	s?
b)	How can you extend one interface by the other interface? Discuss.	[5+5]
	OR	
5.a)	Discuss about CLASSPATH environment variables.	
b)	Discuss the different levels of access protection available in Java.	[5+5]
6.a)	What are advantages of using Exception handling mechanism in a program?	
b)	Write a java program that demonstrates how certain exception types are not a	
	thrown.	[5+5]
7 \	OR	
7.a)	What are the different ways that are possible to create multiple threaded programs in java? Discuss the differences between them.	
b)	Write a program to create four threads using Runnable interface.	[5+5]

- 8.a) What is Java Collections Framework? List out some benefits of Collections framework and explain.
 - b) What is the importance of hashCode() and equals() methods?

[5+5]

OR

- 9.a) What are the common algorithms implemented in Collections Framework? Discuss.
 - b) What is difference between ArrayList and LinkedList in collection framework? Explain.

[5+5]

- 10.a) What is an applet? Explain the life cycle of Applet with a neat sketch.
 - b) Write the applets to draw the Cube and Cylinder shapes.

[5+5]

OR

- 11.a) What is an Layout manager? Explain different types of Layout managers.
 - b) Write a program to create a frame window that responds to key strokes.

[5+5]

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