JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD B.Tech II Year I Semester Examinations, November/December - 2018 **OBJECT ORIENTED PROGRAMMING THROUGH JAVA**

(Common to CSE, IT)

Time: 3 Hours

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

		(25 Marks)
1a)	What is inheritance? Give example.	[2]
b)	Define the basic characteristics of object oriented programming.	[3]
c)	What is Console class? What is its use in java?	[2]
d)	What is the use of auto boxing in java? Explain.	[3]
e)	What is thread based preemptive multitasking?	[2]
f)	How do we set priorities for threads?	[3]
g)	What is a Java Priority queue?	[2]
h)	What is a Collection Class? Give an example.	[3]
i)	What is Swing in Java? How it differs from Applet.	[2]
j)	How do applets differ from application program?	[3]

PART-B

		(50 mains)
2.a) b)	Describe the structure of a typical Java program with an example. Write the significance of Java Virtual Machine.	[5+5]
0)	OR	[0,0]
3.a)	How do we implement polymorphism in JAVA? Explain briefly.	
b)	What is an array? How do you declare the array in java? Give examples.	[5+5]
4.a)	How to design and implement an interface in Java? Give an example.	
b)	Give an example where interface can be used to support multiple inheritance.	[5+5]
	OR	
5.a)	What are the methods available in the Character Streams? Discuss.	
b)	Distinguish between Byte Stream Classes and Character Stream Classes.	[5+5]
6.a)	What is an Exception? How is an Exception handled in JAVA?	
b)	Write a java program that illustrates the application of multiple catch stateme OR	nts. [5+5]
7 a)	-	ha dawa ta
7.a)	Differentiate between multiprocessing and multithreading. What is to implement these in a program?	be done to
b)	Write a program that creates two threads. Fist thread prints the numbers	
	from 1 to 100 and the other thread prints the numbers from 100 to 1.	[5+5]

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Max. Marks: 75

(50 Marks)

Code No: 133BM



- 8. a) What are similarities and difference between ArrayList and Vector? Explain.
 - b) What is different between Iterator and ListIterator? Explain different ways to iterate over a list. [5+5]

OR

- 9.a) What are the best practices related to Java Collections Framework? Discuss.
 - b) What is Comparable and Comparator interface? Differentiate between them. [5+5]
- 10.a) What is the difference between init() and start () methods in an Applet? When will each be executed?
 - b) Write the applets to draw the Cube and Circle shapes. [5+5]

OR

- 11.a) Explain various layout managers in JAVA.
 - b) Write a program to create a frame window that responds to mouse clicks. [5+5]

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