Code No: 133BM JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD B.Tech II Year I Semester Examinations, November/December - 2017 OBJECT ORIENTED PROGRAMMING THROUGH JAVA (Common to CSE, IT)

Time: 3 Hours

inheritance.

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

(25 Marks) Differentiate between print() and println() methods in Java. 1.a) [2] What are symbolic constants? Explain with examples. b) [3] What are the methods available in the character streams? c) [2] What is the significance of the CLASSPATH environment variable in d) creating/using a package? [3] What is the difference between error and an exception? e) [2] What is synchronization and why is it important? [3] f) **g**) What is the significance of Legacy class? Give example. [2] What is the purpose of String Tokenizer class? Explain. h) [3] What are the differences between JToggle buttion and Radio buttion? i) [2] What is an adapter class? Explain with an example. i) [3]

PART-B

(50 Marks)

- 2.a) What is meant by byte code? Briefly explain how Java is platform independent.b) Explain the significance of public, protected and private access specifiers in
 - [5+5]

OR

- 3.a) Explain different parts of a Java program with an appropriate example.
- b) How does polymorphism promote extensibility? Explain with example. [5+5]
- 4.a) Explain the process of defining and creating a package with suitable examples.
- b) Give an example where interface can be used to support multiple inheritance.

[5+5]

OR

- 5.a) What is the accessibility of a public method or field inside a nonpublic class or interface? Explain.
 - b) Describe the process of importing and accessing a package with suitable examples. [5+5]

6.a)	Differentiate between Checked and UnChecked Exceptions with examples.		
b)	Write a program to create four threads using Runnable interface.	[5+5]	
	OR		
7.a)	What are the different ways to handle exceptions? Explain.		
b) How many ways are possible in java to create multiple threaded		s?	
	Discuss the differences between them.	[5+5]	
8.a)	8.a) Differentiate between ArrayList and a Vector? Why ArrayList is faster that		
)	Vector? Explain.		
b)	How an Hashtable can change the iterator? Explain.	[5+5]	
	OR		
9.a)	Explain the Bit Set and Calander classes in detail.		
b)	Discuss the differences between HashList and HashMap, Set and List.	[5+5]	
10.a)	List and explain different types of Layout managers with suitable example	C	
b)	How to move/drag a component placed in Swing Container? Explain.	[5+5]	
	OR		
11.a)	Discuss about different applet display methods in brief.		
b)	What are the various components of Swing? Explain.	[5+5]	





Code No: 133BM JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD B.Tech II Year I Semester Examinations, May/June - 2019 OBJECT ORIENTED PROGRAMMING THROUGH JAVA (Common to CSE, IT)

Time: 3 Hours

Max. Marks: 75

(50 Marks)

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 as sub questions.

PART- A

		(25 Marks)
1.a)	Differentiate between class and object.	[2]
b)	What is meant by ad-hoc polymorphism?	[3]
c)	How to define a package in Java?	[2]
d)	Contrast between abstract class and interface.	[3]
e)	Define exception.	[2]
f)	Differentiate between a thread and a process.	[3]
g)	Which methods of deque enable it to be used as a stack?	[2]
h)	Make a comparison of List, array and ArrayList.	[3]
i)	Give the AWT hierarchy.	[2]
i)	What are the various classes used in creating a swing menu?	[3]

PART-B

		(,
2.a)	What are the responsibilities of an agent?	
b)	What is the purpose of constructor in Java programming?	[5+5]
	OR	
3.	Define inheritance. What are the benefits of inheritance? What costs are as	sociated with
	inheritance? How to prevent a class from inheritance?	[10]
4.	Write a program to demonstrate hierarchical and multiple inheritance using i	
		[10]
	OR	
5.a)	Demonstrate ordinal() method of enum.	
b)	What is type wrapper? What is the role of auto boxing?	[5+5]
6.	Write a program to create three threads in your program and context swite	0
	threads using sleep functions.	[10]
	OR	
7.a)	Write a program with nested try statements for handling exception.	
b)	How to create a user defined exception?	[5+5]

8. Write a program to read a file content and extract words using String Tokenizer class. Display the file if it contains the user query term/search key. [10]

OR

- 9.a) Contrast sorted map and navigable map interfaces.
- b) What is the purpose of BitSet class? What is the functionality of the following functions of BitSet class: cardinality(), flip() and intersects() [5+5]
- 10.a) Illustrate the use of Grid Bag layout.
 - b) What are the subclasses of JButton class of swing package? [5+5]

OR

[5+5]

- 11.a) Create a simple applet to display a smiley picture using Graphics class methods.
 - b) Write a short note on delegation event model.



R16

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

		(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)

	(20)	
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?	
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 allow thrown.	red to be [5+5]
	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]

Code No: 133BM

- 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]



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

(Common to CSE, IT)

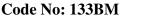
Time: 3 Hours

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

	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 Marks)
2.a)	Describe the structure of a typical Java program with an example.	· · · · · · · · · · · · · · · · · · ·
b)	Write the significance of Java Virtual Machine.	[5+5]
	OR	
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.	
4.a)	· · · · · · · · · · · · · · · · · · ·	[5 5]
b)	Give an example where interface can be used to support multiple inheritance. OR	[5+5]
5.a)	What are the methods available in the Character Streams? Discuss.	
b)	Distinguish between Byte Stream Classes and Character Stream Classes.	[5+5]
0)	Distinguish between Byte Stream Classes and Character Stream Classes.	[3+3]
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 statemer	nts. [5+5]
,	OR I I I I I I I I I I I I I I I I I I I	
7.a)	Differentiate between multiprocessing and multithreading. What is to be a set of the set	be done to
	implement these in a program?	
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]

Max. Marks: 75



R16

- 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]



Code No: 133BM JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD B.Tech II Year I Semester Examinations, December - 2019 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

(25 Marks) What are the commands used for compilation and execution of java programs? 1.a) [2] What is java bytecode? What is JVM? b) [3] What is a package? Write the syntax to define a "package". c) [2] What does Java API package contain? d) [3] What are the run time errors and logical errors in Java? e) [2] What is an exception? What are two exception types? f) [3] What are the properties of hash table? [2] **g**) Differentiate between Iterator and for-each. h) [3] What are the differences between an applet and stand alone java application? [2] i) What are the methods in applet life cycle? i) [3]

PART-B

(50 Marks)

2.a)	Explain briefly class, public, static, void, main, string[] and system.out.println() key words.	
b)	Write a java method to find minimum value in given two values.	[5+5]
	OR	
3.a)	Discuss about precedence of operators and associativity.	
b)	Explain the polymorphism and overloading with an example.	[5+5]
1 a)	Write the herefite of recharge and interferes	
4.a)	Write the benefits of packages and interfaces.	
b)	How can we add a class to a package? Write about relative and absolute paths.	[5+5]
	OR	
5.a)	Write the differences between interface and abstract class.	
b)	Write the procedure to a create package with multiple public classes.	[3+7]
6.a)	What is exception handling? Explain an example of exception handling in the cardivision by zero.	se of
b)	Write a simple java program to create threads.	[5+5]
	OR	
7.a)	Write about some Java's built in exceptions.	
b)	With an example, demonstrate the concept of thread synchronization.	[5+5]



With syntax, explain the following utility classes.		
b) Date and Calendar	c) Scanner.	[10]
OR		
o collection algorithms.		
Explain the process of accessing collection through iterator.		
to anote and mun on anni-	at	
11	et.	
ener Interfaces.		[5+5]
OR		
nstrate parameter passing	to applet.	[10]
	b) Date and Calendar OR o collection algorithms. ng collection through iter to create and run an apple ener Interfaces. OR	b) Date and Calendar c) Scanner. OR o collection algorithms. ng collection through iterator. to create and run an applet. ener Interfaces.

