

R13

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD MCA III Semester Examinations, April/May - 2019 JAVA PROGRAMMING

Time: 3 Hours Max. Marks: 60

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

Part A is compulsory which carries 20 marks. Answer all questions in Part A. Part B consists of 5 Units. Answer any one full question from each unit. Each question carries 8 marks and may have a, b, c as sub questions.

	PART - A		
	$5 \times 4 \text{ Marks} = 20$		
1.a)	Describe the Java program structure.	[4]	
b)	What is the difference between an interface and an abstract class?	[4]	
c)	Explain the different types of legacy collection classes.	[4]	
d)	How does Java support inter thread communication?	[4]	
e)	What are the different types of controls available in AWT?	[4]	
PART - B			
	5 × 8 Mar	$5 \times 8 \text{ Marks} = 40$	
2.a)	What is object oriented programming? Explain the need of object oriented programming.	gramming.	
b)	What is constructor? What are the rules of constructor? Give an example.	[4+4]	
	OR		
3.a)	List and explain Java Buzz words, in detail.		
b)	What is constructor overloading? Explain with examples.	[4+4]	
4.a)	How Packages differ from Interfaces? Explain.		
b)	What is the importance of CLASSPATH? Discuss.	[4+4]	
	OOR		
5.a)	What is interface? How to create it? Explain with example.		
b)	Explain about accessing implementations through interface references.	[4+4]	
6.a)	Explain about Java commonly used collection classes.		
b)	Discuss about random access file operations.	[4+4]	
OR			
7.a)	Write about the overview of Java collection framework.		
b)	Explain the connectionless client/server interaction with diagrams.	[4+4]	
-/		[]	
8.a)	What is thread synchronization? Discuss with an example.		
b)	Explain the following with necessary code snippets:		
	i) Creating thread ii) Stopping and Blocking a Thread	[4+4]	
	OR		
9.a)	Explain various thread states and properties in detail.		
b)	Explain about Exception Handling in Java with examples.	[4+4]	
10.a)	Describe the different stages in the life cycle of an Applet.		
b)	Explain the features of Swings in Java.	[4+4]	
OR			
11.a)	What is AWT? List difference between AWT and swings.		
b)	Write an applet program to enter personal details.	4+4	