

R13

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.

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	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	
		8 Marks = 40
2.a)	What is object oriented programming? Explain the need of object orient	
b)	What is constructor? What are the rules of constructor? Give an example	e. [4+4]
2)	OR	
3.a)	List and explain Java Buzz words, in detail.	[4 + 4]
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]
0)	OR	[]
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:	54 43
	i) Creating thread ii) Stopping and Blocking a Thread	[4+4]
9.a)	OR Exploin various thread states and properties in detail	
9.a) b)	Explain various thread states and properties in detail. Explain about Exception Handling in Java with examples.	[4+4]
U)	Explain about Exception Handling in Java with examples.	[474]
10.a)	Describe the different stages in the life cycle of an Applet.	
b)	Explain the features of Swings in Java.	[4+4]
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11.a)	What is AWT? List difference between AWT and swings.	
b)	Write an applet program to enter personal details.	[4+4]