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Code No: 813AQ

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD MCA III Semester Examinations, August - 2017 JAVA PROGRAMMING

Time: 3 Hours

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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 × 4 Ma	arks = 20	
	1.a)	What is a constructor? Explain briefly various types of constructors.	[4]	
	b)	What is inner class? Write its uses.	[4]	
	c)	Discuss about Java.net package.	[4]	
	d)	Discuss about thread priorities and how do set the priory to a thread in java.	[4]	
	e)	Elaborate the life cycle of applet.	[4]	
		PART - B	PART - B 5×8 Marks = 40	
	2.a)	Discuss various access modifiers in java.	- 40	
	b)	Demonstrate string class and the methods available in string class.	[4+4]	
	2)	OR	[]	
	3.a)	Write a java program to demonstrate method overloading.		
	b)	Write the features of java programming language.	[4+4]	
	4.a)	What is inheritance? Write its advantages.		
	b)	Write a java program to demonstrate multilevel inheritance.	[4+4]	
		OR		
	5.a)	What is interface? Explain how it is differ from abstract class.		
	b)	Design a java program to implement interface with an example.	[4+4]	
		- All		
	6.a)	Give an account on Hash Table class and explain with example program.		
	b)	Discuss about Treemap interface in detail.	[4+4]	
	7	OR COR		
	7.	Explain the steps to create TCP connection using Socket class and design a java program		
		to send a message to the server from client and waiting for response from the serv	er.[8]	
	8.a)	Give a note on checked and unchecked exception.		
	b)	Design a java class to handle checked and unchecked exception.	[4+4]	
	,	OR	. ,	
	9.a)	What is thread and explain life cycle of thread?		
	b)	Write a Java program to implement multi threading concept.	[4+4]	
	10.a)	Discuss various layout manages in java.		
	b)	Write a java program to create a frame which takes two integers and display th		
		two integers using button events.	[4+4]	
OR				
	11.a)	What is delegation event model? Explain in detail.	14-41	
	b)	Write an applet program to draw an oval.	4+4	

Max. Marks: 60

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