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DHARMSINH DESAI UNIVERSITY, NADIAD FACULTY OF TECHNOLOGY B.TECH – SEMESTER – V, IT

SUBJECT: [IT 510] CORE JAVA TECHNOLOGY

Examination: BLOCK(Repeater)Seat No.:Date: 09/11/2017Day:Time: 3:00 to 4.15 pmMax. Marks: 36

1 2 3	NSTRUCTIONS: Figures to the right indicate maximum marks for that question. The symbols used carry their usual meanings. Assume suitable data, if required & mention them clearly. Draw neat sketches wherever necessary.	
Q.1	Do as directed. (a) Explain following terms related to java. 1. Bind Exception	[12]
	 2. InetAddress (b) Explain an applet <applet> tag.</applet> (c) Discuss about DataInputStream and DataOutputStream classes. (d) Differentiate String and StringBuffer class. (e) Explain situations when we get , 1. NullPointerException and 	[2] [2] [2]
	2. ArrayIndexOutofBoundException.(f) If we write, Account [] as=new Account[10]; How many times constructor will be called? Give reason for your answer.	[2]
Q.2	Attempt <i>Any Two</i> from the following questions. (a) Differeitiate between abstract class and interface. Define an interface Shape with a method area () as its only member. Define the class Circle, Rectangle and Triangle that implements the Shape interface. The area () method should have protety to behavior.	[12] [6]
	implements the Shape interface. The area () method should have prototype behavior. (b) Write code fragments to perform the following operations on a given sting str ="Welcome to dduniversity". a. Find the length of string b. Replace the character 'd' by 'n' c. Convert all characters in uppercase	[6]
	Extract and print "dharmsinh" from given string. (c) Write a TCP client server program. Client should able to send length to server and server should be able to calculate area of square and respond to client.	[6]
Q.3	 Attempt <i>ALL</i> from the following questions. (a) 1. Explain Layout Managers. 2. Write an applet that tracks the position of the mouse when it is dragged or moved. At the current mouse position, it displays message (x, y) showing current position of the mouse. The message should disappear as soon as the user releases the mouse. (b) What is the difference between byte stream and character stream? Write a java program to copy subject.txt to destination.txt. 	[12] [2] [4] [6]
0.2	OR Attampt ALL from the following questions	[12]
Q.3	Attempt <i>ALL</i> from the following questions. (a) Write a complete program to create a frame for providing GUI to implement a stack for storing integer numbers. There are two buttons called PUSH & POP and a text field. Clicking of button PUSH, pushes the number entered in the text field onto the stack. The click of button POP pops an element from the stack and displays that in the text field. [Hint: java.util.Stack]	[12]
	(b) Write java TCP chat application program where client and server can chat with each	[6]