## **END TERM EXAMINATION**

FOURTH SEMESTER [BCA] MAY 2017

Pap		ect: Java programming	
Time	e: 3 Hours Maximum Mar	Maximum Marks: 75	
Note: Attempt any five questions including Q no. 1 which is comput		lsory.	
Q1	Answer the following:-  (a) What is type casting? Illustrate with example what is mendation and type promotion.  (b) What is delegation event model?  (c) Discuss the uses of 'throw' and 'throws' keywords.  (d) Explain the different uses of 'super' keyword.  (e) Explain the lifecycle of an applet.	•	
Q2	<ul><li>(a) Explain why the main function is declared as "public static voi (String args[])"?</li><li>(b) List and explain any 8 Java buzzwords.</li><li>(c) List and explain the OOP principles.</li></ul>	d main (4) (4) (4.5)	
Q3	<ul><li>(a) Explain the concept of abstract classes in Java.</li><li>(a) What is a Package? Discuss with suitable example the steps in creating and using packages.</li></ul>	(6) avolved (6.5)	
Q4	<ul> <li>(a) What are interfaces? What are their benefits? Give the general a class that implements interfaces.</li> <li>(b) Write a Java class called as SavingsAccount with memb AccountNo and Balance. Provide depositAmount withdrawAmount() functions. If user tries to withdraw more than his balance, then throw a User Defined Exception.</li> </ul>	( <b>6)</b> ers as () &	
Q5	<ul><li>(a) Explain the different ways of creating threads in java with synta</li><li>(b) How shared object can be protected from multiple access of three</li></ul>		
Q6	<ul><li>(a) Bring out the differences between AWT and Swings using s example.</li><li>(b) Discus various layout managers available in AWT.</li></ul>	uitable (6) (6.5)	
Q7	<ul><li>(a) Write a program to illustrate BufferedInputStream BufferedOutputStream.</li><li>(b) Compare byte stream class and character stream class.</li></ul>	and (6) (6.5)	
Q8	Write short notes on the following:- (a) JDBC architecture (b) Adapter classes (c) Applets and comparison with application program (d) Check box and choice list	(3) (3) (3) (3.5)	

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