## Paper / Subject Code: 53604 / Advanced Java

<b>4.</b> a.	Attempt <u>any two</u> of the following: Explain the components of JDBC.	10
a. b.	What is the use of JSP? List the advantages and disadvantages of JSP.	
c.	Distinguish between JSP and Servlets.	
d.	What is a Statement in JDBC? Explain the various kinds of statements that can be	
u.	created in JDBC	No.
	Cleated in JDBC	
5.	Attempt <u>any two</u> of the following:	10
a.	Write a program using JSF to find square root of a number.	a in the second
b.	Explain the need of JSF along with its features.	
c.	What are EJBs? Explain its benefits.	
d.	Enlist and explain the lifecycle phases of JSF.	
6.	Attempt any two of the following:	10
a.	Explain any 3 core components of struts framework.	
b.	What is Hibernate? Explain the features of Hibernate.	
c.	Explain the components of Hibernate:	
d.	What is value-stack? What are the different types of objects that it can hold off?	
	Explain their accessing strategy.	
7.	Attempt any three of the following:	15
a.	Write a short note on JDBC transactions.	
b.	Write a java AWT program that creates the following GUI.(Consider the window	
	closing event)	
	Login Screen	
	User ID:	
	CSCI ID.	
	Password: (5 Chars only)	
	Login Cancel	
jū.		
c.	Explain the steps to create a hibernate application.	
d.	Explain with suitable example < navigation-rule > element of faces-config.xml.	
e.	Distinguish between AWT and Swing components.	
f.	Explain CGI and its working. Also write disadvantages of CGI.	

 $(2\frac{1}{2} \text{ hours})$ 

Marks: 75

N. B.: (1) All questions are compulsory. (2) Make suitable assumptions wherever necessary and state the assumptions made. (3) Answers to the same question must be written together. (4) Numbers to the right indicate marks. (5) Draw neat labeled diagrams wherever necessary. (6) Use of Non-programmable calculators is allowed. Attempt any two of the following: 1. What are the different layout manager classes in Java? Explain BorderLayout with a. example. Write a Java code to create the following GUI: b. Applet Viewer... X Applet Undecided ou pressed Yes. Applet started. List and explain any 5 event listener interfaces. c. Write a short note on "Event Listeners". Explain the working with code specification. d. 10 2. Attempt any two of the following: Write a program to demonstrate usage of JTable in java swings. a. Write a short note on Swings. b. Explain JFileChooser class with an example. How can a tree structure be created in Swing? Explain d. 10 Attempt any two of the following: Develop servlet application of basic calculator (+, -, \*, /) using HttpServletRequest and HttpServletResponse. Explain the need of servlet. b. Write a servlet code to print sum of squares of odd digits in a number. c. Explain the steps involved in a servlet's lifecycle with the help of a diagram.