VCD 4 10 19 S.Y.B.SC (CS) -ADVANCED JAVA -SEM-IV - 75MKS -21/2HRS

N.B.	1) All questions are compulsory.	
	3) Illustrations in-depth answers and diagrams will be approximately	
	4) Mixing of sub-questions is not allowed.	
	[15	5]
Q.1. A	ttempt All (Each of 5 Marks)	
(a) Mu	L' 1- Chaine Questions:	
	is not a correct component of Swing.	
	(a) JViewport (B) JDialog (C) JToggleButton (D) JMenuItems	
	(C) IToggleButton (D) JMenuItems	
		ge
	(A) Object Graph Navigation Language (D) Output Graph Navigation Language (D)Online Graph Navigation Language	ge
	(C) ORM Graph Navigation Language (D) mackage.	
	(iii) JSP page implementation class is defined in package.	
	(A) javax.servlet (B) javax.jsp (C) javax.servlet.http (D) javax.servlet.jsp	-
	(C) javax.servlet.http (D) javax.servlet.jsp	
	(iv) 'nage' implicit object is instance of which class.	
	(A) : : Down (B) 18V8.UIII.OUICCI	
	(C) java.lang. Object (D) javax.servlet. Page (D) javax.servlet. Page	
	(C) java.lang. Object (D) java.servieti age	
	(v) Which of the following is not correct scope value for <jsp:usebean> tag?</jsp:usebean>	
	(A) application (B) pagecontext	
	(C) page (D) session	
(b) F	Il in the blanks: (JspPage,page,name,cookies, <jsp:include>,HttpJspPage ,pagecontext,id, hidden form fields, <jsp:import>) (i) is a directive. (ii) interface includes jspInit() and jspDestroy() methods. (iii) attribute uniquely identification element. (iv) action element is used to include a file in JSP. (v) is stored at client side.</jsp:import></jsp:include>	
(c) A	(i) What is the use of session object? (ii) What is the purpose of DriverManager class in JDBC? (iii) Enlist the classes and interfaces included in http package. (iv) What is JSP declaration element used for? (v) Write a java code spec to add cookies to the response.	
Q. 2	 Attempt the following (Any THREE) a) Explain JDBC architecture. b) Explain constructors and methods of JList class. c) Differentiate between AWT and swing. d) Write a swing program to show the use of TextField and PasswordField using event handling. e) Explain different types of statement. f) Explain different types of JDBC drivers. 	5]

Q. 3. Attempt the following (Any THREE)

a) Explain interfaces in brief: 1. ServletConfig

2. ServletContext

b) Explain life cycle of servlet.

- c) Write a jsp program to accept name and age of a person from index.html and if age>=18 then determine whether the person is eligible for driving
- d) Explain different session tracking techniques.
- e) Explain any five implicit objects with its methods.
- f) Write a short note on scripting elements in JSP.

Q. 4. Attempt the following (Any THREE)

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[15]

- a) Write a note on Struts2 interceptors.
- b) Illustrate how to create and use a java bean with an example.
- c) Explain <jsp:forward> and <jsp:include> action tags.
- d) Illustrate how to use JSON schema with an example.
- e) Write a short note on Value Stack.
- f) Explain basic MVC architecture.

Q. 5. Attempt the following (Any THREE)

[15]

- a) Write steps for JDBC connectivity.
- b) Write a short note on servlet API.
- c) Explain various Result Types available in Struts2...
- d) Write a swing program to create a list and a label. The list contains colleges in Mumbai. When a college is selected, its country is displayed in a label.
- e) Write a short note on JSP directives.