Adarnced Java.

QP Code: 04553

(2½ hours)

[Total Marks: 75

N. B.: (1) All questions are compulsory.

(2) Make <u>suitable assumptions</u> wherever necessary and <u>state the assumptions</u> 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.

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Attempt any two of the following:

a. Explain the java delegation event model. What are the two steps in using the java delegation event model?

Explain adapter classes and inner classes. b.

Explain the following methods when working with frame windows:

v. windowClosing iv. setTitle ili. setVisible ii. getSize i. setSize

What are the different LayoutManager classes in Java? Explain CardLayout with d. example.

Attempt any two of the following: 2.

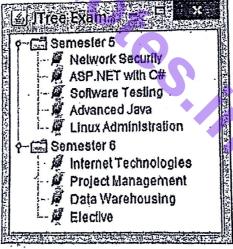
Explain Root Pane, Glass Pane, Layered Pane, Content Pane and Desktop Pane.

Distinguish between abstract window toolkit and java foundation classes. b.

Explain JPopupMenu class with example. C.

Write a program using JTree to generate the following hierarchical structure. Assume

the image file is "leaf.jpg"



8. Aftempt gav two of the fellowing:

What are servlets? What are the advantages of servlets over CGI? a.

What is RequestDispatcher? What are its two methods? Using RequestDispatcher wite the code for the following:

index.html file with two text boxes to enter username and password and a login button. Login, java servlet class to process the response. If the password is "servlet" it should forward the request to WelcomeServlet.java which displays "Welcome <Username>". If the password is not "servlet", Login.java should display "Sorry Username or password error!!!" web.xml, the deployment descriptor file that contains the information about the servlet.

Explain GenericServlet with its constructors and methods.

Write a servlet application to find the sum of digits of the number entered by the user d. through the HTML form.

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	4. Attempt <u>any two</u> of the following: What is JDBC driver? Explain the types of JDBC drivers. What is JDBC architecture.	10
l c	Explain the JDBC and disadvantages of Juva sor Juva what are the advantages and disadvantages of the numbers from 1 to 10. Write a JSP application that computes the cubes of the numbers from 1 to 10.	
5 a b	Explain the model-view of JSF lifecycle.	10
c. d.	Enumerate the benchts of the specification that calculates simple interest. Assume the Write a session bean code specification that calculates simple interest. Assume the principal, term and rate of interest is entered by the user and the input is passed through principal, term and rate of interest is entered by the user and the input is passed through	
	a servlet.	
6. a.	Attempt anv two of the following: Explain the architecture of hibernate framework in detail.	19
b. c.	Explain structure of hibernate.cfg.xml file. Explain structure of hibernate.cfg.xml file. What is Value Stack in struts? State and explain the Execution Flow of Value Stack.	
d.	Explain interceptors in struts.	
7.	Attempt any three of the following:	15
a.	What is Checkbox Group? Explain with example.	
b.	Explain JScrollPane and JScrollBar with example.	
C,	Explain the lifecycle of servlet.	
d.	Write a JDBC program that inserts values in database. [TABLE NAME: Employee FIELDS: Empid, Name, Dept, Designation]	
e,	What are the different types of enterprise beans? Explain.	
f.	What is OGNL? Explain the execution flow of OGNL.	
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