TUBSEIT (V)] Adv Java/Jo Q.P. Code: 23210

(Time: $2\frac{1}{2}$ hours)

Total Marks: 75

[TURN OVER]

| N. | B.: (1) <u>All</u> questions are <u>compulsory</u> . | |
|----------|--|----|
| | (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 <u>right</u> indicate <u>marks</u> . | |
| | (5) Draw <u>neat labeled diagrams</u> wherever <u>necessary</u> . | |
| | (6) Use of Non-programmable calculators is allowed. | |
| | | |
| ι. | Attempt <u>any two</u> of the following: | 10 |
| 1. | Explain the use of adapter class with suitable example. | |
|). | Explain Delegation Event model. What are two steps in using the java delegation event model? | |
| ì. | Explain the various Layout Managers available in AWT. | |
| 1. | Write AWT based Java program that will read a string from user and display the length of the | |
| | string. | |
| 2. | Attempt any two of the following: | 10 |
| €. | Write a Java program using swing components that displays table containing student | |
| | information (Name, Address, 10 th %, 12 th %, Emailed, Contact No.). | |
| Э. | What is use of JColorChooser? Write down the constructors and methods of the same. | |
| 2. | Distinguish Between AWT & JFC (Swing). | 4 |
| 1. | Explain Root Pane, Glass Pane, Layered Pane, Content Pane and Desktop Pane. | |
| | Attempt <u>any two</u> of the following: | 10 |
| 3. | What are servlets? What are the advantages of servlet over CGI? | |
| a. L | What is Request Dispatcher? What are its two methods? | |
| b. | Explain the ServletRequest interface of servlet API. | |
| c. d. | Write a servlet program to display the factorial of a given number. | |
| u. | Wille a servier brogram to disbudy the reasonal and a | |
| 4. | Attempt any two of the following: | 10 |
| a. | List and explain the Directive tags of JSP. | |
| b. | Explain JDBC architecture. | |
| c. | Write the purpose of the following JDBC classes: | |
| | i. DriverManager ii. ResultSet iii. Statement iv. Connection | |
| | v. PreparedStatement | |
| d. | What are the advantages and disadvantages of Java Server pages? | |
| r | Attempt <u>any two</u> of the following: | 10 |
| 5. | Explain Model-view-controller architecture. | |
| а. b. | List various phases of JSF lifecycle. Explain in short. | |
| | What is Facelet? Write the features of Facelet. | |
| C. | Explain the benefits of EJB. | |
| d. | Expiair the senting of Se. | |
| 6. | Attempt any two of the following: | 10 |
| a. | Explain Architecture of Hibernate framework in detail. | |
| b. | What is value stack in struts? State and exaplin the execution flow of value stack. | |
| c. | Write a short on Interceptors in struts. | |
| d. | Explain structure of hibernate.cfg.xml file. | |
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| 1. | Attempt | any three | of the | following: |

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- a. What is CheckBoxGroup? Explain with Example.
- b. Write a java program to demonstrate the use of Tabbed Panes.
- c. What is the purpose of WEB-INF file? Explain.
- d. Write a JDBC program that inserts values in database. [table Name : Book, Fileds : Bookid, Title, Author, Publisher]
- e. What are the different types of enterprise beans? Explain.
- f. What is OGNL? Explain the execution flow of OGNL.