

[Time:2.30 Hrs]

[Marks:75]

Please check whether you have got the right question paper.

- N.B:
1. All question are compulsory.
 2. Figures to the right indicate full marks.

Q.1 Attempt any four of the following:**20**

- A Write a short note on swing.
- B What is the difference between AWT and Swing.
- C Explain JTextarea with suitable example.
- D Write a short note on JDBC.
- E Explain Native-API driver.
- F Explain JDBC APT components

Q.2 Attempt any four of the following:**20**

- A What are servlets? Explain the request/response paradigm of servlet
- B Explain different phases of Servlet Life Cycle.
- C Write a short note on GenericServlet Class.
- D Differentiate between ServletConfig and ServletContext.
- E Differentiate between JSP and Servlet
- F Differentiate between JSP Include directives and JSP Include action.

Q.3 Attempt any four of the following:**20**

- A What are Java Beans? What are the advantages of using Java Beans?
- B Define manifest file of Beans & explain the concept of Introspection of the Bean
- C Explain the Results & Result Types?
- D Write a short note on Value Stack & OGNL.
- E Explain the difference between JSON & XML.
- F Mention what is the rule for JSON syntax rules? Give an example of JSON object?

Q.4 Attempt any three of the following:

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- A Explain PreparedStatement in detail.
- B Explain JPasswordField with suitable example.
- C What is page directives?
- D Explain page directives and its attributes.
- E What is OGNL? What does it consist of? How its contents can be accessed?
- F Explain the Struts 2 Basic MVC Architecture?
