D 121240 (Pages : 2) Name...

Reg. No.....................................

FOURTH SEMESTER M.Sc. DEGREE (REGULAR/SUPPLEMENTARY) EXAMINATION, APRIL 2025

(CBCSS)

Computer Science

CSS 4E 04 F—ADVANCED JAVA PROGRAMMING

(2019 Admission onwards)

Time : Three Hours Maximum : 30 Weightage

Section A (Short Answer)

Answer any **four** *questions.*
Each question carries 2 *weightage.*

1. What do you mean by stubs and Skelton ?

2. What is a factory class ?

3. What is a Servlet ?

4. What is the use of JNDI ?

5. How will you create a JSP error page ?

6. Explain empty custom tag in JSP.

7. What is ORM in Hibernate ?

(4 × 2 = 8 weightage)

Section B (Short Essay)

Answer any **four** *questions.*
Each question carries 3 *weightage.*

8. Summarize RMI architecture.

9. Write a note on HTTP servlets.

10. Explain servlet chaining.

11. Explain roles in EJB.

Turn over

12. Summarize the steps in developing reusable web presentations using JSP.

13. Write a note on Hibernate query language.

14. Summarize the steps in deploying an enterprise bean object.

(4 × 3 = 12 weightage)

Section C (Essay)

Answer any **two** *questions.*
Each question carries 5 *weightage.*

15. Write note on :

    i)   Serializable classes ;

    ii) RMI activation ; and

    iii) Persistent class.

16. Discuss HTTP protocols. Summarize the steps in configuring Tomcat server.

17. Discuss the implementation of session beans and entity bean using EJB.

18. Illustrate the steps to develop JSP pages using custom tags.

(2 × 5 = 10 weightage)