

2211000608010001
EXAMINATION FEBRUARY-MARCH 2024
MASTER OF SCIENCE (INFORMATION TECHNOLOGY)
(EIGHTH SEMESTER)
JAVA WEB DEVELOPMENT-LEVEL 1

[Time: As Per Schedule]

[Max. Marks: 70]

Instructions:

1. Fill up strictly the following details on your answer book

- a. Name of the Examination : **MASTER OF SCIENCE (INFORMATION TECHNOLOGY) (EIGHTH SEMESTER)**
- b. Name of the Subject : **JAVA WEB DEVELOPMENT-LEVEL 1**
- c. Subject Code No : **2211000608010001**

2. Sketch neat and labelled diagram wherever necessary.
3. Figures to the right indicate full marks of the question.
4. All questions are compulsory.

Seat No:

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Student's Signature

Q.1 Answer the following Questions in brief. (Any 8)

16

- a) Explain the flow of Java Security in Payara server?
- b) How can we supply run time initial values to the servlet and its context?
- c) What are deployment descriptors for web applications. Write sample descriptor for web application and server context.
- d) Explain the use of cookies in servlets by suitable example.
- e) Explain the working of forward and include action tags in JSP
- f) Write a short note on converters
- g) Write a note on PhaseListener in JSF
- h) Write steps and code to support localisation in JSF
- i) Write a custom component for a textbox which accepts strong passwords only.

Q.2 Do as directed (Any two)

18

- a) Starting with JSTL explain the complete execution cycle of JSP and Servlets
- b) Explain all action tags of JSP with their usage.

- c) A JSP form of Payment module of credit card is validated by Java Beans. The validation should be checked against blank entry, no of digits of credit card, no of digits of PIN and Phone no format

Q.3 Do as directed (Any two)

18

- a) Explain how can we deal with application session, page, cookie and response objects in JSTL/EL. Also list benefits and limitations of JSTL
- b) Explain core and data tags of JSP
- c) Explain the term Credential, Identity Store and show them how to use them to authenticate a client

Q.4 Do as directed (7,7,4)

18

- a) Explain the request processing life cycle of JSF.
- b) Explain Validators in JSF. Write and Use a custom validator for age field. It should be between 18 to 60
- c) Write down all the steps to perform Oauth and OpenId Conect for a Java web application using google authentication
