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24-CS-43

**M.Sc. IV SEMESTER [MAIN/ATKT] EXAMINATION  
JUNE - JULY 2024**

**COMPUTER SCIENCE**

Paper - III

**[Internet and Web Technology]**

[Max. Marks : 75]

[Time : 3:00 Hrs.]

[Min. Marks : 26]

**Note :** Candidate should write his/her Roll Number at the prescribed space on the question paper.  
Student should not write anything on question paper.  
Attempt five questions. Each question carries an internal choice.  
Each question carries **15 marks**.

- Q. 1 a)** How does a web container plays an important role for a web application. (4 Marks)
- b)** Define HTTP protocol in Java. (3 Marks)
- c)** What are Scripting Languages ? Write the major advantages of scripting languages. (8 Marks)

**OR**

- a)** Explain Generic Servlet Life Cycle ? How is it created ? Explain with example. (10 Marks)
- b)** Define Web programming in Java. (5 Marks)

- Q. 2 a)** What is Session ? How is it handled through various methods ? Explain in brief. (10 Marks)
- b)** What is the difference between forwarding a request and redirecting a request. (5 Marks)

**OR**

- a)** What is Listener ? Explain the HTTP listener with suitable example. (8 Marks)
- b)** What is Filter in Java ? Explain the various types of filters in Java. (7 Marks)

- Q. 3 a)** Explain the Meta Data Interface in brief. (6 Marks)
- b)** How Servlet is connected to oracle for creating a table. (9 Marks)

**OR**

- a)** Describe the use of statement interface with example in detail. (8 Marks)
- b)** What is Connection Pooling ? What is the need of using connection pooling. (7 Marks)

**P.T.O.**

- Q. 4 a)** Discuss about implicit objects of JSP. (6 Marks)
- b)** Describe the different action elements with example. (9 Marks)

**OR**

- a)** What are different types of directives used in JSP. (6 Marks)
- b)** Explain the use of Java Bean with example through JSP. (9 Marks)

- Q. 5 a)** Write a simple code in JSP for creating and destroying cookies. (10 Marks)
- b)** Define Struts in brief. (5 Marks)

**OR**

- a)** Write the steps of creation of custom tag with example. (10 Marks)
- b)** What is MVC design pattern of JSP in brief ? (5 Marks)

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