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VELAGAPUDI RAMAKRISHNA

SIDDHARTHA ENGINEERING COLLEGE

(AUTONOMOUS)

III/IV B.Tech. DEGREE EXAMINATION, MAY - 2023

Sixth Semester

INFORMATION TECHNOLOGY

20IT6303 WEB PROGRAMMING AND DEVELOPMENT

Time: 3 hours

Max. Marks: 70

Part-A is compulsory

Answer One Question from each Unit of Part - B

Answer to any single question or its part shall be written at one place only

PART-A

10 x 1 = 10M

1. a. What is the use of ResultSet? Give syntax. (CO1 K1)
- b. Why to use PreparedStatement? (CO1 K2)
- c. List the life cycle methods used in Servlet. (CO2 K1)
- d. Outline the use of Cookie. (CO2 K2)
- e. What is meant by Spring Initializr? (CO3 K1)
- f. Write about @ Bean annotation. (CO3 K2)
- g. How and when stereo type annotations can be used? (CO4 K1)
- h. What is Spring Data JPA? (CO4 K2)
- i. What is the purpose of JDBCTemplate? (CO3 K1)
- j. Why to use @ Lazy annotation? (CO3 K2)

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PART-B

4 x 15 = 60M

UNIT-I

2. a. Summarize the overview of JDBC process. **(CO1 K2) 7M**
b. Contrast JDBC drivers in detail. **(CO1 K2) 8M**

(or)

3. a. Write a program to insert data into MySQL database. **(CO1 K3) 10M**
b. Write a short note on Statement interface. **(CO1 K1) 5M**

UNIT-II

4. a. Write a html to read login information Create a servlet to read and print information. **(CO2 K5) 7M**
b. Distinguish between Java Servlets and CGI programming. **(CO2 K2) 8M**

(or)

5. a. Illustrate the concept of Cookie in servlet with an example. **(CO2 K2) 7M**
b. Explain anatomy and life cycle of Servlet in detail. **(CO2 K2) 8M**

UNIT-III

6. a. Interpret how to attain breaking the monolithic way of Software development using Spring Boot. **(CO3 K2) 7M**
b. Elaborate in detail how to build an application using Maven. **(CO3 K2) 8M**

(or)

7. a. Explain the features and advantages of Spring Boot. **(CO3 K2) 7M**
b. Discuss about 12 factor app in detail. **(CO3 K2) 8M**

UNIT-IV

8. a. Identify the use of Java based annotation with suitable examples. **(CO4 K2) 7M**
b. Discover how to access in memory data using JdbcTemplate. **(CO3 K3) 8M**

(or)

9. a. Discuss the following annotations
i) @Autowired
ii) @ Primary **(CO4 K2) 7M**
b. How to utilize MySQL data with Spring Data JPA? **(CO3 K3) 8M**

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