

Velegapudi Ramakrishna Siddhartha Engineering College::Vijayawada (Autonomous) III /IV B Tech Degree Examinations(December/2022) Sixth Semester Department of Information Technology 20IT6303: WEB PROGRAMMING AND DEVELOPMENT						VR20		
Time:3Hrs		MODEL QUESTION PAPER				Max Marks:70		
Part – A is Compulsory Answer one (01) question from each unit of Part – B Answers to any single question or its part shall be written at one place only Cognitive Levels(K): K1-Remember;K2-Understand; K3-Apply; K4-Analyze; K5-Evaluate; K6-Create								
Q. No		Question				Marks	Course Outcome	Cog. Level
Part - A						10X1=10M		
1	a	State different types of statement interfaces available in Java Database Connectivity				1M	CO1	K1
	b	Write the code snippet on how to connect to a relational database from a Java application				1M	CO1	K2
	c	List advantages in using Servlets over CGI				1M	CO2	K1
	d	Define session tracking in web applications				1M	CO2	K1
	e	State the objectives of Spring Boot				1M	CO3	K1
	f	List build tools in Spring Boot				1M	CO3	K1
	g	Recognize the advantages of spring annotations				1M	CO4	K1
	h	Why to use Spring Data JPA?				1M	CO4	K2
	I	Is it possible to work with server side applications such as Servlets without deployment descriptors				1M	CO2	K2
	j	Differentiate between Spring and Spring Boot				1M	CO1	K2
Part - B						4X15 =60M		
UNIT - I								
2	a	List and explain the advantages and disadvantages of different JDBC drivers to connect to a database				7M	CO1	K2
	b	Create a Java application to retrieve employee information from an employee table with eno, enamae, salary as attributes using Statement interface				8M	CO1	K3
(OR)								
3	a	Discuss briefly about the process involved to connect to a relational database.				7M	CO1	K1
	b	Create a JDBC application to insert the product information into a product table using PreparedStatement				8M	CO1	K3

UNIT - II					
4	a	Sketch and explain the anatomy of a Servlet	7M	CO2	K2
	b	Create a Servlet to read the information from the following page, retrieve and print the information in the Servlet  <div style="text-align: center;"> <b>Student Information System</b>  Student Roll Number <input type="text"/>  Student Name <input type="text"/>  Student Mobile Number <input type="text"/>  <input type="button" value="Submit"/> </div>	8M	CO2	K3
(OR)					
5	a	Discuss briefly about how Cookies are created in Java Servlets	7M	CO2	K2
	b	Create a Servlet to create Cookies to login credentials and retrieve the set Cookies.	8M	CO2	K3
UNIT - III					
6	a	List and explain tools required to build an application in Spring Boot	7M	CO3	K2
	b	Breaking the monolithic way of developing software using Spring Boot	8M	CO3	K2
(OR)					
7	a	Elaborate the features and advantages of Spring Boot	7M	CO3	K2
	b	Discuss briefly about the steps involved with Spring Initializer	8M	CO3	K2
UNIT - IV					
8	a	Discuss about @ConfigurationProperties and @ComponentScan annotations in Spring Boot	7M	CO4	K2
	b	Illustrate the following annotations with respect to Spring Boot application: i. @EnableAutoConfiguration ii. @SpringBootApplication iii. @SpringBootConfiguration	8M	CO4	K3
(OR)					
9	a	Discuss about CrudRepository interface in Spring Boot	7M	CO4	K2
	b	Create a Spring Boot application that retrieves all records from an employee table where the user asks for the first name.	8M	CO4	K3

Designation	Name in Capitals	Signature with Date
Course Coordinator	M Ashok Kumar, BLN P Kumar	
Program Coordinator	Dr G. Kalyani	
Head of the Department	Dr M. Suneetha	