GUJARAT TECHNOLOGICAL UNIVERSITY

MCA - SEMESTER- V• EXAMINATION - WINTER 2020

Date:05/01/2020

Subject Code:4659305 Subject Name:Application Development using SPRING

Time:10:30 AM to 12:30 PM Total Marks: 56

Instructions:

- 1. Attempt any FOUR questions out of EIGHT questions.
- 2. Make suitable assumptions wherever necessary.
- 3. Figures to the right indicate full marks.

Q.1	(a)	Do As Directed:	07
		1. What is the use of @Required?	
		2. LDAP Stand For	
		3. MVC Stand For	
		4. JPA Stand For	
		5. Which base URL is used for develop Spring Project?	
		6. POM stands for	
		7. What is the use of @AutoWired?	
	(b)	What is Spring Boot? Explain Spring Framework in details.	07
Q.2	(a)	What is JPA? Explain architecture of JPA with example.	07
	(b)	Explain GetMapping, PostMapping, PutMapping and DeletMapping with example.	07
Q.3	(a)	What is JDBCTemplate? Explain with example	07
	(b)	What is HATEOAS? What is the need of HATEOAS? Explain with example.	07
	(6)	What is in 11201 is . What is the need of in 11201 is. Explain with chample.	07
Q.4	(a)	What is RabbitMQ? Explain its type of exchanges.	07
	` ′	Explain Spring Data Converting between reactive and non-reactive types.	07
	(b)	Explain Spring Data Converting between reactive and non-reactive types.	U/
Q.5	(a)	What is Rest Service? Write a Restful Controller Code for sending a data to the	07
		server.	
	(b)	Explain REST endpoints with RestTemplate.	07
		. (7) *	
Q.6	(a)	What is JMS? Write down step for to send message through JMS.	07
	(b)	What is Filter, Transformers, Routers, Channel Adapter? Explain in short.	07
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Q.7	(a)	How to send Email through Spring? Explain with Code.	07
	(b)	What is WebFlux? Explain it's with Sample Code.	07
Q.8	(a)	What is Reactive Spring? Explain Diagramming reactive flows.	07
	(b)	What is MongoDB? How to store and retrieves data from MongoDB?	07
