Department of CSE

B. Tech Mid Question Bank (R22 Regulation)

Academic Year:2023-24   **Semester: V**

Subject Name: Devops

Faculty Name: Dr.G. Madhukar

PART-A

Q.No	Questions	Marks	BL	CO	Unit No
1	What is Continuous Delivery in the context of DevOps?	2	BL1	CO1	I
2	What is Release Management in software development.	2	BL1	CO1	I
3	What are the key principles of Scrum?	2	BL1	CO1	I
4	What is Kanban	2	BL1	CO1	I
5	What is a delivery pipeline in software development?	2	BL1	CO1	I
6	What are bottlenecks in a software delivery pipeline?	2	BL1	CO1	I
7	What is a monolithic architecture in the context of software development?	2	BL1	CO2	II
8	Mention two key architecture rules of thumb in software design.	2	BL2	CO2	II
9	What does the separation of concerns mean in software architecture?	2	BL1	CO2	II
10	How can database migrations be handled in a DevOps environment?	2	BL3	CO2	II
11	What are microservices, and how do they relate to the data tier?	2	BL1	CO2	II
12	How does DevOps contribute to the resilience of software architecture?	2	BL3	CO2	II
13	What roles are typically involved in managing source code?	2	BL1	CO3	III
14	What are hosted Git servers	2	BL1	CO3	III
15	Any two Git Commands	2	BL2	CO3	III

9PART-B

Q.No	Questions	Marks	BL	CO	Unit No
1	What is the Agile development model?	4	BL1	CO1	I
2	Explain briefly about Scrum Methodology.	4	BL4	CO1	I
3	Define Continuous Delivery in the context of DevOps.	4	BL1	CO1	I
4	Explain briefly about ITIL?	4	BL4	CO1	I
5	Distinguish Development and Operations in the Devops culture	4	BL3	CO1	I
6	Explain how to identify and address bottlenecks in a delivery pipeline.	4	BL4	CO1	I

7	Provide a detailed explanation of the Agile development model, emphasizing its core principles, values, and the benefits it offers to software development teams.	8	BL3	CO1	I
8	Explain a key difference between Scrum and Kanban.	8	BL4	CO1	I
9	Can you describe what DevOps is and how deliver project successfully	8	BL5	CO1	I
10	What is the DevOps lifecycle, and how does it contribute to business agility?	8	BL1	CO2	II
11	What is meant by software architecture in a DevOps environment? And Explain the concept of a monolithic architecture	8	BL1	CO2	II
12	Distinguish between monolithic architecture, and microservices?	8	BL3	CO2	II
13	What are the 'rules of thumb' in software architecture?	4	BL1	CO2	II
14	What is the principle of 'separation of concerns' in software architecture?	4	BL1	CO2	II
15	Briefly explain the significance of handling database migrations in DevOps	4	BL3	CO2	II
16	What are microservices, and how do they relate to the data tier?	4	BL1	CO2	II
17	What role does DevOps play in enhancing software resilience?	4	BL1	CO2	II
18	Analyze the role of Continuous Testing in the DevOps pipeline.	4	BL5	CO2	II
19	Give a short history of how source code management tools have evolved and describe any two source code management tools	8	BL2	CO3	III
20	What is a source code management system (SCM)? And explain with Git and GitHub	8	BL1	CO3	III
21	Why is it important to keep track of changes in source code during software development?	4	BL2	CO3	III
22	What are the different roles in code management, and what does each role do?	4	BL1	CO3	III
23	How does shared authentication help teams when using Git servers?	4	BL2	CO3	III