

Code No.: (R22IT504PC)

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**CMR ENGINEERING COLLEGE: : HYDERABAD**  
**UGC AUTONOMOUS**

**III-B.TECH-I-Semester End Examinations (Regular) - December- 2024**

**DEVOPS**

**(IT)**

**[Time: 3 Hours]**

**[Max. Marks: 60]**

**Note:** This question paper contains two parts A and B.

Part A is compulsory which carries 10 marks. Answer all questions in Part A.

Part B consists of 5 Units. Answer any one full question from each unit. Each question carries 10 marks.

**PART-A**

**(10 Marks)**

1. a) Describe Continuous Integration. [1M]
- b) What is Kanban? [1M]
- c) What is the role of automation in DevOps. [1M]
- d) What are Microservices? [1M]
- e) Name some DevOps tools. [1M]
- f) What is Operate Phase? [1M]
- g) Define Server. [1M]
- h) What quality metrics matter most for DevOps? [1M]
- i) Define Integration Testing. [1M]
- j) What is Chef in DevOps? [1M]

**PART-B**

**(50 Marks)**

2. Describe various components that constitute the DevOps architecture with neat diagram. [10M]
- OR**
3. Discuss the scenarios where Agile will prove to be better in comparison to Spiral Model. [10M]
4. Discuss how DevOps uses key aspects of Agile Methodology in software development. [10M]
- OR**
5. Discuss Architecture rules of thumb in DevOps. [10M]
6. Explain different Git server implementations. [10M]
- OR**
7. Specify how to integrate Docker with GitLab CI/CD. [10M]
8. Explain Jenkins plugins and file system layout. [10M]
- OR**
9. Define Trigger and how to build triggers on DevOps pipeline? [10M]
10. Discuss about features of Salt Stack and its benefits. [10M]
- OR**
11. Explain about Selenium Features. [10M]

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