

Code No: 155EX

R18

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

B. Tech III Year I Semester Examinations, January/February - 2023

DEVOPS

(Computer Science and Engineering – Data Science)

Time: 3 Hours

Max. Marks: 75

Note: i) Question paper consists of Part A, Part B.

ii) Part A is compulsory, which carries 25 marks. In Part A, Answer all questions.

iii) In Part B, Answer any one question from each unit. Each question carries 10 marks and may have a, b as sub questions.

PART – A

(25 Marks)

- 1.a) How is Devops different from agile methodology? [2]
- b) Explain about the artifact repository. [3]
- c) What is the principle of cohesion? [2]
- d) Explain in detail about coupling. [3]
- e) What is Gerrit? [2]
- f) Discuss about shared authentication. [3]
- g) What is Jenkins file system layout? [2]
- h) Explain about Jenkins plugins. [3]
- i) What is unit testing? [2]
- j) Why are there so many deployment systems? Explain. [3]

PART – B

(50 Marks)

2. Explain about Scrum, Kanban, and the delivery pipeline in detail. [10]
- OR**
3. Discuss in detail about release management and agile development model. [10]
4. Describe Devops, architecture and resilience in detail. [10]
- OR**
5. Write a brief note on software architecture. Explain about the monolithic scenario. [10]
6. Explain about different Git server implementations and Docker intermission. [10]
- OR**
7. Discuss about hosted Git servers and the pull request model. [10]
8. Describe the host server and build slaves in detail. [10]
- OR**
9. What are triggers? Explain about job chaining and build pipelines. [10]
10. Explain the following:
a) Deploying with SaltStack b) Testing backend integration points. [5+5]
- OR**
11. Explain the following:
a) Visualization stacks b) Automated integration testing. [5+5]

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