



Devops endsem QP

BE Information Technology (Savitribai Phule Pune University)



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Total No. of Questions : 8]

SEAT No. :

PA-952

[Total No. of Pages : 2

[5927]-399

**B.E. (Information Technology)
INTRODUCTION TO DEVOPS**

(2019 Pattern) (Semester-VII) (Elective-IV) (414445 B)

Time : 2½ Hours]

[Max. Marks : 70

Instructions to the candidates:

- 1) Answer Q.1 or Q.2, Q.3 or Q.4, Q.5 or Q.6, Q.7 or Q.8.
- 2) Neat diagrams must be drawn wherever necessary.
- 3) Figures to the right side indicate full marks.
- 4) Assume suitable data, if necessary.

Q1) a) Define continuous integration? Explain benefits of continuous integration. [5]

b) Compare continuous delivery and continuous deployment. [5]

c) Draw a diagram to visualize CI/CD pipeline and explain all stages in detail. [8]

OR

Q2) a) Write a note on code repository server. [5]

b) Explain role of continuous integration server. What operations a CI server can execute? [5]

c) What are strategies for continuous delivery? [8]

Q3) a) Explain integration testing with the help of example. [6]

b) Draw and explain basic deployment pipeline. [6]

c) Explain the changes moving through the deployment pipeline in DevOps. [5]

OR

Q4) a) Comment on Trade-offs in the deployment pipeline. [6]

b) List and explain the strategies which are useful to manage defects list? [6]

c) Write a short note on the Commit Stage. [5]

P.T.O.

- Q5)** a) What is a Monitoring System? Explain Factors involved in the Monitoring System. [6]
b) List and explain tools used for monitoring? Explain its use [6]
c) Explain the Roles and responsibilities of an SRE. [6]

OR

- Q6)** a) Write a short on white box and black box monitoring. [6]
b) What is Behavior-Driven Monitoring? How it works? [6]
c) What does a site reliability engineer do? List Common tools used by SREs with example. [6]

- Q7)** a) How do you maintain version control? What are the benefits of using version control? [6]
b) Write a note on Prometheus [6]
c) Explain continuous delivery in Jenkins? [5]

OR

- Q8)** a) Explain serverless architecture in Kubernetes? [6]
b) Write a short note on Docker [6]
c) Explain continuous Testing with Selenium [5]

