

Please check that this question paper contains 9 questions and 2 printed pages within first ten minutes.

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Uni. Roll No.

EVENING
06 JUL 2022

Program: B.Tech. IT (Batch 2018 onward)

Semester: 6

Name of Subject: DevOps: Software Architecture

Subject Code: PCIT-115

Paper ID: 17207

Time Allowed: 03 Hours

Max. Marks: 60

NOTE:

- 1) Parts A and B are compulsory
- 2) Part-C has Two Questions Q8 and Q9. Both are compulsory, but with internal choice
- 3) Any missing data may be assumed appropriately

Part – A

[Marks: 02 each]

Q1.

- a) Name three important DevOps KPIs.
- b) What is the difference between continuous delivery and continuous deployment?
- c) Illustrate the benefits of version control system?
- d) In Git how do you revert a commit that has already been pushed and made public?
- e) What are docker images and docker containers?
- f) Detail the tracked and untracked files in git?

Part – B

[Marks: 04 each]

- Q2.** What are the different phases in DevOps?
- Q3.** How do all DevOps tools work together?
- Q4.** Differentiate between containerisation and virtualisation.
- Q5.** Illustrate how Jenkins is integrated with various devOps stages?
- Q6.** How to configure Docker in Jenkins?

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P.T.O.

Q7. Why DevOps become famous? How does AWS contribute to DevOps?

Part – C

[Marks: 12 each]

Q8. Detail the working with Bourne Again Shell (BASH) using GUI. Explain the GIT installation steps.

OR

What is docker? How can you create your first container? How to stop and remove containers?

Q9. What is Jenkins? How to configure it? How to use it to build projects? Linking Jenkins to git repository.

OR

What is branching? Why do we need branches, how can we create remote branches and branches from existing one, how to delete branches?
