Question Paper

MANIPAL ACADEMY OF HIGHER EDUCATION

Manipal School of Information Sciences (MSIS), Manipal
First Semester Master of Engineering - ME (Cloud Computing) Degree Examination - November / December 2023
DevOps for Cloud [CDC 5001]

Marks: 100   **Duration: 180 mins.**

Thursday, November 23, 2023

Answer all the questions.

1)	Briefly explain classical software life cycle models in product life cycle development and its disadvantages. L3, CO1, PO1 (10 MARKS)	(10)
2)	Interpret the following Git commands. L3, CO1, PO1 (2 Marks each) a) git config b) git clone c) git stash d) git rebase e) git status	(10)
3)	Briefly explain DevOps life cycle. L3, CO1, PO1 (10 Marks)	(10)
4)	Briefly explain Continuous integration with suitable example. L3, CO2, PO3 (10 Marks)	(10)
5)	Describe containers and their use. Explain briefly the various docker components. L3, CO2, PO3 (5+5 Marks)	(10)
6)	Discuss the importance of docker volumes. Classify the 3 types of docker volumes. L3, CO2, PO3 (4+6 Marks)	(10)
7)	Illustrate the need of container orchestration with a relevant example and Explain various components of worker node. L4, CO3, PO4 (6+ 4Marks)	(10)
8)	Explain Docker Compose Use Cases? Classify the benefits of Docker Compose. Provide the basic Commands in Docker Compose. L4, CO3, PO4 (2+4+4 Marks)	(10)
9)	Explain configuration management. Explain why configuration management is important. Classify some SCM Features. L5, CO4, PO5 (2+4+4 Marks)	(10)
10)	Briefly explain the architecture and features of Ansible with suitable block diagram L5, CO4, PO5 (5+5 Marks)	(10)

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