

Total No. of Questions : 4]

PC241

[6361]-107

B.E. (IT) (Insem)

INTRODUCTION TO DevOps

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

[Max. Marks : 30

Time : 1 Hour]

Instructions to the candidates:

- 1) Answer Q.1 or Q.2, Q.3 or Q.4.
- 2) Neat diagram must be drawn whenever necessary.
- 3) Figures to the right indicate full marks.
- 4) Assume suitable data, if necessary.
- 5) Use of Scientific Calculator is permitted.

Q1) a) Explain the role of DevOps Engineers. [5]

b) Explain in brief DevOps pipeline phases. 6 phases [6]

c) Enlist and explain role of stakeholders involved in DevOps culture. 6 Stakeholders [4]

OR

Q2) a) What is Developers responsibility in DevOps culture. Explain. 2 responsibility [4]

b) Write a note on Monitoring Best Practices. 3 [6]

c) What are the reasons for adopting DevOps? 5 [5]

Q3) a) Draw & explain structure of small Monolithic Application. 2 m - Explain [4]

b) Enlist and explain in brief characteristics of microservice architecture. [5] 5

c) Enlist two disadvantages of microservices over monolithic architecture. [2] 2

d) Explain in brief any two microservices best practices. 2 m [4]

OR

Q4) a) Describe in brief any three advantages of microservices over monolithic architecture. 1 m [3]

b) Enlist and explain in brief four deployment models of Cloud Computing. 2 marks [8]

c) Explain any 4 components of Docker container. [4]

