

PC241

[6361]-107

B.E. (IT) (Insem)

## INTRODUCTION TO DevOps

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

/Max. Marks : 30

10  
30  
40

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. [4]  
*6 Stakeholders*

OR

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

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-2* [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 b* [4]

OR

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

b) Enlist and explain in brief four deployment models of Cloud Computing. *4 m- 4* [8]

c) Explain any 4 components of Docker container. *1 /* [4]

