

Total No. of Questions : 4]

SEAT No. :

P-5252

[Total No. of Pages : 2

[6188]-208

B.E. (Information Technology) (Insem)

Introduction to DevOps

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

Time : 1 Hour]

[Max. Marks : 30

Instructions to the candidates:

- 1) *Answer Q.1 or Q.2, Q3 or Q.4.*
- 2) *Neat diagram must be drawn wherever necessary.*
- 3) *Figures to the right indicate full marks.*
- 4) *Assume suitable data if necessary.*
- 5) *Use of Scientific Calculator is permitted.*

- Q1)** a) Describe the steps of the DevOps pipeline in detail. Explain the relevance of each step. **[5]**
- b) Justify How DevOps practices help to bridge the gap between the development and operations teams. **[6]**
- c) Enlist the reasons for adopting DevOps. **[4]**

OR

- Q2)** a) Explain how continuous integration and continuous deployment play a part in DevOps. **[5]**
- b) Why is monitoring necessary throughout the software development process? Explain proper monitoring procedures. **[6]**
- c) How does DevOps differ from the traditional waterfall model? **[4]**

- Q3)** a) Draw and explain structure of small scale monolithic application. **[5]**
- b) Explain in brief characteristics of micro service architecture. **[6]**
- c) Write a short note on server less computing. **[4]**

OR

P.T.O.

- Q4)** a) Describe the benefits of container-based apps in the DevOps life cycle and the philosophy behind them. **[5]**
- b) What is cloud computing? Describe the four-cloud computing deployment model. **[6]**
- c) Differentiate between automation and orchestration along with example. **[4]**
