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| **Name:**<br>**Enrolment No:** |  |

**UPES**

**End Semester Examination, May 2023**

**Course: System Provisioning and Configuration Management** **Semester: VI**

**Program: B.Tech (CS +DevOps)** **Time : 03 hrs.**

**Course Code: CSDV 3012** **Max. Marks: 100**

**Instructions:**

1. **All questions are compulsory.**
2. **There are 11 questions in the question paper and are divided into three section A, B, and C.**
3. **Section A contains 5 questions of 4 marks each, Section B contains 4 questions of 10 marks each, and Section C contains 2 questions of 20 marks each.**

**SECTION A**

**(5Qx4M=20Marks)**

**Instruction: Complete the answer 100-200 words.**

| S. No. | | Marks | CO |
|---|---|---|---|
| Q 1 | Illustrate any four majorly used tools for System Provisioning and Configuration Management | **4** | **CO2** |
| Q 2 | Discuss any four advantages of virtual environment. | **4** | **CO3** |
| Q 3 | Justify the benefits of cloud computing technologies in the current technical scenarios. | **4** | **CO3** |
| Q 4 | "Cloud computing is beneficial for coding" Mention any four reasons. | **4** | **CO2** |
| Q 5 | Illustrate the restrictedness of server provisioning. | **4** | **CO1** |

**SECTION B**

**(4Qx10M= 40 Marks)**

**Instruction: Complete the answer 250-300 words.**

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|---|---|---|---|
| Q 6 | Demonstrate the configuration management and how does it help an organization. | **10** | **CO4** |
| Q 7 | Explain the "Provisioning in cloud" and how it is useful for DevOps automation. | **10** | **CO4** |
| Q 8 | Discuss the concept of playbook in Ansible with an appropriate example. | **10** | **CO4** |
| Q 9 | Describe the architecture of Ansible.<br>**OR**<br>Explain the concepts of Testing machine. | **10** | **CO4** |

**SECTION-C**

**(2Qx20M=40 Marks)**

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|---|---|---|---|
| **Instruction: Complete the answer 1000-1200 words.** | | | |
| Q 10 | Elaborate the importance of SDLC? How is configuration management linked with DevOps? Mention the drawbacks of configuration management? (5+10+5 =20 marks)<br>**OR**<br>Discuss the following terms (200-300 words) (4 *5 marks =20 marks)<br>a) Monitoring in DevOps<br>b) Automation in DevOps<br>c) Preventing error in DevOps<br>d) Track Changes in DevOps | **20** | **CO1** |
| Q 11 | Discuss the flow and integration of any four tools for the following process: (8+7+5 =20 marks)<br>a) Continuous integration<br>b) Continuous monitoring<br>c) Continuous feedback | **20** | **CO2** |