# Apex Institute Technology (AIT)

**Subject Name:** System Provisioning & Configuration Management

**Subject Code:** 22CSH-481

**Submitted to:**

Faculty name

Dr. Kamaljit Singh Saini

**Submitted by:**

Name: Ayush Pandey

UID: 22BDO10038

Section: 22BDO-1

Group: A

**Department of AIT - CSE**

**Name:** Ayush Pandey                    **UID:** 22BDO10038

# INDEX

| Ex. No | List of Experiments | Conduct (MM: 12) | Viva (MM: 10) | Record (MM: 8) | Total (MM: 30) | Remarks/ Signature |
|---|---|---|---|---|---|---|
| 1.1 | A. Automate the creation of an EC2 instance using Boto3<br><br>B. Managing S3 Buckets with Boto3 | | | | | |
| 1.2 | Automate EC2 Instance Termination Using Boto3 | | | | | |
| 1.3 | Automated Security Group Rule Management for EC2 Instances Using Boto3 | | | | | |
| 1.4 | Automating IAM Role Creation & Policy Attachment using Boto3 | | | | | |
| 2.1 | Setting Up a Basic Terraform Environment | | | | | |
| 2.2 | A. Using Variables in Terraform<br><br>B. Managing State in Terraform | | | | | |
| 2.3 | A. Working with Terraform Modules<br><br>B. Implementing Conditional Logic in Terraform | | | | | |
| 3.1 | Setting Up Ansible and Running a Basic Playbook | | | | | |
| 3.2 | A. Deploying a Sample Application with Ansible<br><br>B. Using Roles in Ansible | | | | | |
| 3.3 | A. Configuring Handlers and Notifications in Ansible<br><br>B. Automating Server Updates Using Ansible Playbooks | | | | | |