Assignment Questions – Module 5: Serverless Computing for AI Workflows

1. Explain serverless computing in your own words. Describe how it works and list any three advantages.

2. Draw or describe a simple AI workflow using AWS services (Lambda, API Gateway, Step Functions, S3). Explain how data flows through each stage.

3. What is the role of AWS Lambda in an AI workflow? Give one real-world example of how Lambda is used for AI tasks.

4. Describe how AWS CloudWatch helps in monitoring serverless AI workflows. Explain logs, metrics, and alarms with examples.

5. List and explain any three security practices used to secure AI APIs in AWS (e.g., IAM, KMS, API throttling, CloudTrail).