

**VIT**Vellore Institute of Technology
(Deemed to be University under section 3 of UGC Act, 1956)

SLOT - G1

School of Computer Science Engineering and Information Systems

CONTINUOUS ASSESSMENT TEST - I - FALL SEMESTER-2024

Programme Name & Branch: B.Tech IT

Class Number(s): 2942, 2935, 2948

Course Name Code: BCSE355L

Course Name: AWS Solutions Architect

Exam Duration: 90 Mins

Maximum Marks: 50

S.No.	Question
1.	During a recent brainstorming session with the tech team, the CTO of SS tech suggested to change the IT architecture to increase the performance, resilience and scalability. As a cloud analyst suggest the best fault tolerant solution to cater to these requirements. Can AWS Global Infrastructure be implemented? Discuss.
2.	Weather modeling is a computation-intensive problem that requires complex data management and analysis. Processing massive amounts of weather data on a single computer is slow and time consuming. In order to perform an effective processing of such massive data, the organization plan to deploy AWS cloud model. As a tech evangelist, discuss the AWS Shared Responsibility Model for this scenario.
3.	Post Covid, most of the organizations opt for a cost optimal solution. One such organization is planning to revamp its HR portal to optimize its performance based on unpredictable workloads. Discuss the deployment of EC2 instance and suggest the best type of instance for this scenario.
4.	VIT is planning to deploy an Object Storage as a Service for efficiently managing its data. Suggest various scenarios on how this storage service can be used.
5.	There was a trouble ticket raised by the employees that their website content wasn't displayed properly due to network lag. Discuss with a simple architecture how CDN can be deployed for resolving this ticket.