



VIT

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

REG.NO.:

SCHOOL OF ELECTRONICS ENGINEERING
CONTINUOUS ASSESSMENT TEST - I
FALL SEMESTER 2026-27

SLOT: A1

Programme Name & Branch : B.Tech. (BEC,BML,BVD)
Course Code and Course Name : BECE355L & Advanced Cloud Computing
Faculty Name(s) : Dr.Aparna Mohanty, Dr.Konguvel, Dr.Rajalakshmi S
Dr.Sangeetha N, Dr.Sriharipriya, Dr.Sujatha & Dr.Sumathi G
Class Number(s) : VL2026270100498, VL2026270100500, VL2026270100502,
VL2026270100504, VL2026270100506, VL2026270100508, VL2026270100510
Date of Examination :09-08-26
Exam Duration : 90 minutes
Maximum Marks: 50

General instruction(s):

- Answer All Questions
- M - Max mark; CO - Course Outcome; BL - Blooms Taxonomy Level (1 - Remember, 2 - Understand, 3 - Apply, 4 - Analyse, 5 - Evaluate, 6 - Create)
- Course Outcomes:
CO1: Comprehend the AWS cloud concepts and service models.
CO2: Comprehend and differentiate between various AWS core, database services and its applications.

Q. No	Question	M	CO	BL
1.	An online retailer maintains confidential business data within its on-premise computing infrastructure but temporarily extends its computing capacity to the cloud platform during festive sales. Identify a suitable cloud deployment model for the above scenario and explain the selected model.	10	1	BL2
2.	A web application development team requires a cloud environment that provides pre-configured application runtimes, managed databases and app development tools without the need to maintain servers. Apply the most appropriate cloud service model for the given scenario. Justify your recommendation by discussing how the chosen service model supports application development.	10	1	BL3
3.	A company plans to migrate two applications to virtual computing instances in the cloud. Application 1 :Requires computing instances continuously over a long period with predictable usage. Application 2 :Requires computing instances only occasionally based on changing business demands. Interpret the most suitable instance purchasing options for each application. Justify your answer by explaining the key features of the selected instance purchasing types.	10	2	BL2



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4.	A software company manages two types of datasets: - Dataset 1: Stores data for frequently accessed applications that require high availability, low latency, and fast data retrieval. - Dataset 2: Stores long-term archival data that is rarely accessed, needs a secure and cost-effective storage. As a cloud architect, use the most suitable cloud storage options for each category of data. Justify your recommendation by explaining how the selected storage options satisfy the requirements for access patterns, fault tolerance, security, and cost optimization.	10	2	BL3
5.	Describe the components of Amazon Simple Notification Service and explain how messages are delivered to different subscribers.	10	2	BL2
