MIT ACADEMY OF ENGINEERING

COURSE CODE: CS353T **22 DECEMBER 2023**

TY BTECH SEMESTER-V 2019 REGULAR 2023-2024 EXAMINATION

DEPARTMENT OF COMPUTER ENGINEERING

END SEMESTER EXAMINATION

CLOUD COMPUTING FOUNDATIONS

TIME : 2 HOURS **MAX MARKS : 50**

TOTAL NO OF QUESTIONS: 05 **TOTAL NO OF PRINTED PAGES: 02**

INSTRUCTIONS TO CANDIDATES:

1. Assume suitable data wherever necessary
2. Non programmable scientific calculators are allowed
3. Black figures to the right indicate full marks

1	**a)**	Explain which database service is supported by AWS for the following types of databases with its features in short: 1. Relational database 2. Key-value based database 3. Document based database 4. In memory database 5. Graph based database	**[10]**	**CO4**	**L3**
2	**a)**	You need to create 2 public subnets and 2 private subnets. Explain which VPC Components will be used for the above scenario	**[4]**	**CO5**	**L4**
	b)	What is the need of VPC Peering? Explain its advantages and disadvantages	**[4]**	**CO5**	**L3**
3	**a)**	Explain various types of load balancers supported by AWS	**[6]**	**CO6**	**L2**
	b)	What is cross zone load balancing? Explain the behaviour of load balancer when the cross zone load balancing is enabled as well disabled with suitable example	**[6]**	**CO6**	**L4**

4	**a)**	What is the need of Autoscaling Groups? Explain the significance of minimum, desired and maximum fields of autoscaling groups	**[4]**	**CO6**	**L3**
	b)	With suitable diagram explain the concept of lifecycle hook in autoscaling groups	**[6]**	**CO6**	**L3**
	c)	Explain various scaling policies supported by autoscaling groups	**[6]**	**CO6**	**L2**
5	**a)**	What is need of CloudFront service provided by AWS?	**[4]**	**CO5**	**L2**