

Enrollment No.....



Faculty of Engineering
End Sem (Even) Examination May-2022
CS3EY01 Introduction to Cloud Computing
Programme: B.Tech. Branch/Specialisation: CSE

Duration: 3 Hrs.

Maximum Marks: 60

Note: All questions are compulsory. Internal choices, if any, are indicated. Answers of Q.1 (MCQs) should be written in full instead of only a, b, c or d.

- Q.1 i. _____ computing refers to applications and services that run on a distributed network using virtualized resources. **1**
(a) Distributed (b) Cloud (c) Soft (d) Parallel
- ii. Which of the following is essential concept related to Cloud? **1**
(a) Reliability (b) Productivity
(c) Abstraction (d) All of these
- iii. Which of the following is best known service model? **1**
(a) SaaS (b) IaaS (c) PaaS (d) All of these
- iv. Which of the following is the deployment model? **1**
(a) Public (b) Private (c) Hybrid (d) All of these
- v. Point out the false statement of the following: **1**
(a) Cloud Computing has two distinct sets of models
(b) Amazon has built a worldwide network of data centres to service its search engine
(c) Azure enables .NET Framework applications to run over the Internet
(d) None of these
- vi. Which of the following is Cloud Platform by Amazon? **1**
(a) Azure (b) AWS (c) Cloud-era (d) All of these
- vii. _____ cloud is one where the cloud has been organized to serve a common function or purpose. **1**
(a) Public (b) Private
(c) Community (d) All of these

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- viii. Which of the following is related to the service provided by Cloud? **1**
 (a) Sourcing (b) Ownership
 (c) Reliability (d) AaaS
- ix. Which of the following benefit is related to creates resources that are pooled together in a system that supports multi-tenant usage? **1**
 (a) On-demand self-service (b) Broad network access
 (c) Resource pooling (d) All of these
- x. Which of the following architectural standards is working with cloud computing industry? **1**
 (a) Service-oriented architecture (b) Standardized web services
 (c) Web-application frameworks (d) All of these
- Q.2 i. What are the advantages of using cloud computing? **2**
 ii. Explain the key steps in cloud implementation planning process with example. **3**
 iii. Explain different models for deployment in cloud computing. **5**
- OR iv. List the different cloud application available in market. Briefly explain the scenarios/situation of” when to not use clouds”. **5**
- Q.3 i. Differentiate between Salesforce and Google G suite with their criteria. **2**
 ii. Design the architecture of PaaS and SaaS in cloud computing. Also, explain the different categories of PaaS and SaaS with example. **8**
- OR iii. What are the various identity and access management (IAM) practices followed for authentication, authorization and auditing of the users accessing cloud services? **8**
- Q.4 i. Explain in brief cloud desktop infrastructure in brief with its services. **3**
 ii. How testing under cloud can be performed? Explain it by taking service-based models of cloud computing under consideration. **7**
- OR iii. Explain the services provided by Amazon infrastructure cloud from user perspective **7**
- Q.5 i. Describe the top threats identified by cloud security alliance (CSA) of cloud computing. **4**

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- ii. Explain the Cloud Computing security architecture using suitable block diagram. **6**
- OR iii. Explain the Cloud information security fundamental introduced in cloud security management. **6**
- Q.6 Attempt any two:
- i. What do you understand by hypervisors? **5**
- ii. Write the difference between block and file level storage virtualization. **5**
- iii. Describe different types of hypervisors with example and block diagram. **5**

Marking Scheme

CS3EY01 Introduction to Cloud Computing

Q.1	i.	_____ computing refers to applications and services that run on a distributed network using virtualized resources.	1
		(b) Cloud	
	ii.	Which of the following is essential concept related to Cloud?	1
		(c) Abstraction	
	iii.	Which of the following is best known service model?	1
		(d) All of these	
	iv.	Which of the following is the deployment model?	1
		(d) All of these	
	v.	Point out the false statement of the following:	1
		(b) Amazon has built a worldwide network of data centres to service its search engine	
	vi.	Which of the following is Cloud Platform by Amazon?	1
		(b) AWS	
	vii.	_____ cloud is one where the cloud has been organized to serve a common function or purpose.	1
		(c) Community	
	viii.	Which of the following is related to the service provided by Cloud?	1
		(a) Sourcing	
	ix.	Which of the following benefit is related to creates resources that are pooled together in a system that supports multi-tenant usage?	1
		(a) On-demand self-service	
	x.	Which of the following architectural standards is working with cloud computing industry?	1
		(a) Service-oriented architecture	
Q.2	i.	Any four advantages of using cloud computing	2
		0.5 mark for each (0.5 mark * 4)	
	ii.	Five steps in cloud implementation planning process with example.	3
	iii.	Models for deployment in cloud computing	5
		As per the explanation	
OR	iv.	Four cloud application	5
		Scenarios/situation	2.5 marks

Q.3	i.	Difference between Salesforce and Google G suite	2
		Four differences 0.5 mark for each (0.5 mark * 4)	
	ii.	Architecture of PaaS and SaaS	8
		2 marks for each (2 marks * 2)	
		Explanation of each	
		2 marks for each (2 marks * 2)	
OR	iii.	Identity and access management (IAM)	8
		Diagram	4 marks
Q.4	i.	Virtual desktop infrastructure	3
		Diagram	1.5 marks
	ii.	Testing / Evaluation	7
		Service-based models of cloud computing	3 marks
OR	iii.	Seven services provided by Amazon infrastructure	7
		As per explanation	
Q.5	i.	Four threats identified by cloud security alliance (CSA)	4
		1 mark for each (1 mark * 4)	
	ii.	Cloud Computing security architecture	6
		Explanation	3 marks
OR	iii.	Cloud information security fundamental introduced in cloud security management.	6
		2 marks for each (2 marks * 3)	
Q.6		Attempt any two:	
	i.	Hypervisors	5
		Explanation	3 marks
		Example	2 marks
	ii.	Difference between block and file level storage virtualization.	5
		1 mark for each difference (1 mark * 5)	
	iii.	Types of hypervisors	5
		Block diagram	3 marks
			2 marks
