



Faculty of Science / Engineering

End Semester Examination May 2025

CA3EL16 Cloud Computing

Programme	:	BCA / BCA-MCA (Integrated)	Branch/Specialisation	:	-
Duration	:	3 hours	Maximum Marks	:	60

Note: All questions are compulsory. Internal choices, if any, are indicated. Assume suitable data if necessary.
Notations and symbols have their usual meaning.

Section 1 (Answer all question(s))		Marks	CO	BL
Q1.	Which one of the following can be considered as the example of the front-end? <input type="radio"/> Google Compute Engine <input checked="" type="radio"/> Web Browser <input type="radio"/> Cisco Metapod <input type="radio"/> Window Azure	1	1	1
Q2.	_____ is the essential concept related to cloud. <input type="radio"/> Modulation <input checked="" type="radio"/> Abstraction <input type="radio"/> Reliability <input type="radio"/> None of the above	1	1	1
Q3.	The Force.com and windows Azure are examples of which of the following? <input type="radio"/> IaaS <input checked="" type="radio"/> PaaS <input type="radio"/> SaaS <input type="radio"/> DaaS	1	2	1
Q4.	Which of the following is a key benefit of Platform as a Service (PaaS)? <input type="radio"/> Increased hardware flexibility <input type="radio"/> Full hardware control <input type="radio"/> Manual scaling <input checked="" type="radio"/> Faster development	1	2	1
Q5.	Which of the following is a step of deployment phase? <input type="radio"/> Transformation Plan . Development <input type="radio"/> IT architecture development <input type="radio"/> Business Architecture . Development <input checked="" type="radio"/> Selecting cloud computing provider	1	3	1
Q6.	Which AWS service is ideal for deploying applications in a private cloud environment? <input checked="" type="radio"/> AWS VPC <input type="radio"/> AWS EC2 <input type="radio"/> AWS Lambda <input type="radio"/> AWS S3	1	3	1
Q7.	In virtualization, what is the function of a hypervisor? <input type="radio"/> Creates storage clusters <input checked="" type="radio"/> Manages the virtual machine and hardware interaction <input type="radio"/> Optimizes network bandwidth <input type="radio"/> Enhances security	1	4	1
Q8.	It is an array of servers that are managed by a virtual storage system. <input type="radio"/> Desktop virtualization <input checked="" type="radio"/> Storage virtualization <input type="radio"/> Application virtualization <input type="radio"/> Network virtualization	1	4	1
Q9.	What is a common security concern related to multi-tenancy in cloud computing? <input checked="" type="radio"/> Data segregation <input type="radio"/> Lack of internet connectivity <input type="radio"/> Limited scalability <input type="radio"/> Insufficient processing power	1	5	1

Q10. Which cloud security component controls who can access specific cloud resources and what actions they can perform? 1 5 1

- ☐ Network security
 ☐ Multi-Factor Authentication
☒ Identity and Access Management (IAM)
 ☐ Data encryption

Section 2 (Answer any 2 question(s))

Marks CO BL

Q11. Define cloud computing. Explain its applications in detail.

5 1 2

Rubric	Marks
Define Cloud Computing	2
Explain its applications in detail	3

Q12. Explain cloud computing architecture with proper diagram.

5 1 2

Rubric	Marks
Explain Cloud Computing Architecture	3
Cloud Computing Architecture diagram	2

Q13. What is cloud computing deployment models with examples?

5 1 2

Rubric	Marks
What is cloud computing deployment models	3
deployment models examples	2

Section 3 (Answer any 2 question(s))

Marks CO BL

Q14. Explain communication as a service and database as a service with proper diagram.

5 2 2

Rubric	Marks
Explain Communication as a Service	2
Explain Database as a Service	2
Diagram of Communication as a Service and Database as a Service	1

Q15. What are IaaS, PaaS, and SaaS? Explain with examples and diagram.

5 2 2

Rubric	Marks
What is IaaS PaaS and SaaS	3
IaaS PaaS and SaaS example and diagram?	2

Q16. What is cloud service provider? Which are the major cloud service providers?

5 2 2

Rubric	Marks
What is cloud service provider	2
atleast 3 cloud service providers (1 marks for each)	3

Section 4 (Answer any 2 question(s))

Marks CO BL

Q17. What are the phases to migrate the entire business to cloud?

5 3 2

Rubric	Marks
For explaining Phase 1	2
For explaining Phase 2 and 3 (1.5 marks each)	3

Q18. What is Amazon EC2 and Amazon S3 with its features?

5 3 2

Rubric	Marks
What is Amazon EC2	1.5
What is Amazon S3	1.5
Features of Amazon EC2 and Amazon S3	2

Q19. Explain Google App Engine in cloud computing with diagram.

5 3 2

Rubric	Marks
Explain Google App Engine in detail	3
Diagram of Google App Engine	2

Section 5 (Answer any 2 question(s))

Marks CO BL

Q20. Explain virtualization and its types in cloud computing.

5 4 2

Rubric	Marks
Explain Virtualization	1
Explain Types of Virtualization in cloud computing?	4

Q21. Explain different implementation levels of virtualization in cloud computing.

5 4 2

Rubric	Marks
Explain Implementation Levels of Virtualization (1 marks for each level)	5

Q22. Explain virtualization structure in cloud computing with diagram.

5 4 2

Rubric	Marks
Explain Virtualization Structure	3
Virtualization Structure diagram	2

Section 6 (Answer any 2 question(s))

Marks CO BL

Q23. How do cloud security threats differ from traditional security threats?

5 5 2

Rubric	Marks
Cloud Security Threats Differ from Traditional Security Threats? (1 marks for each difference)	5

Q24. Explain the concept of Identity and Access Management (IAM) in cloud security.

552

Rubric	Marks
Explain Identity and Access Management (IAM)	2
Concept of Identity and Access Management (IAM) in cloud security	3

Q25. Explain cloud computing security architecture with diagram.

552

Rubric	Marks
Explain cloud computing security architecture	3
security architecture diagram?	2
