



Avinashilingam Institute for Home Science and Higher Education for Women
(Deemed to be University Estd. u/s 3 of UGC Act 1956, Category 'A' by MHRD)
Re-accredited with 'A++' Grade by NAAC. Recognised by UGC Under Section 12B
Coimbatore - 641 043, Tamil Nadu, India

Continuous Internal Assessment Test - I February 2025
Semester VI

Class: III UG
Major: Computer Applications

Time : 2 Hrs
Max.Marks: 60

21BCAC30 Cloud Architecture and Services

Course Outcomes:

1. Acquire the knowledge on the basics of cloud computing.
2. Identify the architecture, infrastructure and delivery models of cloud computing.
3. Apply suitable virtualization concept for real-world problems.
4. Select the appropriate cloud player and its services for deploying a cloud environment.
5. Address the core issues of cloud computing such as security, privacy and interoperability.

Part A
Choose the correct answer

6x1 = 6

1. The cloud that shares the infrastructure across several organizations which has a common concern is
a. Private b. Community c. Scalability of Cloud d. Public
CO1_KO1
2. Hypervisor acts as a
a. Virtual Machine b. Virtual Machine Manager c. Virtual Transmitter d. Booting device
CO1_KO2
3. The machine on which the virtual machine is created is known as
a. Host Machine b. Guest Machine c. Visitor Machine d. None
CO2_KO1
4. Reduction of Hardware expense is an advantage of _____
a. Server Virtualization b. Desktop Virtualization
c. Network Virtualization d. All of the Above
CO2_KO2
5. Which one of the following statement is true about the Virtualization?
a. It provides a logical name for a physical resource, and on-demand provides an indicator of that physical resource.
b. In Virtualization, we analyze the strategy related problems that customers may face.
c. In Virtualization, it is necessary to compile the Multitenant properly.
d. All of the above
CO3_KO2
6. Identify among the following, which provides a runtime environment.
a. IaaS b. SaaS c. PaaS d. XaaS
CO3_KO1

Part B **3 x 6=18**
ANSWER ALL THE QUESTIONS
Answer should not exceed 400 words

- 7.a. Write about the characteristics of cloud computing.
(or)
CO1_K2
- 7.b. Enumerate the various cloud service providers
CO1_K1

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|--|--------|
| 8.a. Demonstrate the characteristics of virtualized environment. | CO2_K3 |
| (or) | |
| 8.b. Explain execution virtualization. | CO2_K3 |
| 9.a. Briefly explain about platform as a service. | CO2_K2 |
| (or) | |
| 9 b. Discuss the functionality of software as a service. | CO3_K2 |

Part C
ANSWER ALL THE QUESTIONS
Answer should not exceed 800 words or four pages

3x12=36

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| 10. a. Demonstrate the difference between client/server and cloud computing model. | CO1_K3 |
| (or) | |
| 10 b. Illustrate the benefits and limitation of cloud computing. | CO1_K3 |
| 11.a. Explain the taxonomy of virtualization techniques | CO2_K2 |
| (or) | |
| 11.b. Summarize the types of virtualization in cloud. | CO2_K2 |
| 12.a. Explain the cloud architecture in detail. | CO3_K2 |
| (or) | |
| 12 b. Describe Infrastructure as a service. | CO3_K1 |

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