

**Avinashilingam Institute for Home Science and Higher Education for Women,
(Deemed to be University), Coimbatore – 641 043**

**Master Degree Examination – November 2018
Semester I**

Class : M.Sc.
Major : Information Technology

Time : 3 hours
Max. Marks : 60

17MITC04 – CLOUD COMPUTING

PART – A

10 x 1/2 = 5

Choose the correct answer

1. Which is considered the most widely used cloud computing service?
a) Infrastructure-as-a-Service (IaaS) b) Communication-as-a-Service (CaaS)
c) Software-as-a-Service (SaaS) d) Platform-as-a-Service(PaaS)
2. Which of the following can be identified as cloud?
a) Hadoop b) Intranet c) Web Applications d) All of the mentioned
3. Which of the following cloud concept is related to pooling and sharing of resources?
a) Polymorphism b) Abstraction c) Virtualization d) Inheritance
4. An entity that manages the use, performance and delivery of cloud services and negotiates relationships between cloud providers and cloud consumers is
a) Cloud broker b) Cloud Auditor c) Cloud Provider d) Cloud carrier
5. Virtual LANs fall within the scope of _____.
a) LaaS b) Naas c) HaaS d) CaaS
- 6) Which cloud computing feature allows for server consolidation resulting in increased asset utilization and decreased data centre energy needs?
a) Virtualization b) Provisioning c) Automation d) Governance
- 7). Which computing refers to applications and services that run on a distributed network using virtualized resources?
a) Distributed b) Cloud c) Soft d) Parallel
8. Amazon Web Services is which type of cloud computing distribution model?
a) Software as a Service b) Platform as a Service
c) Infrastructure as a Service d) Cloud –On -Demand
9. Which cloud deployment model enables to provisioning the cloud infrastructure for exclusive use by organizations that have shared concerns?
a) Externally–hosted Private Cloud b) Public Cloud
c) Hybrid Cloud d) Community Cloud
10. Which cloud deployment model is typically preferred by an individual who is least concerned about the security or availability risks and most concerned about reducing cost?
a) Public b) Private c) Community d) Hybrid

PART B

5 x 4 = 20

Answer ALL questions

Each answer should not exceed 200 words or one page

- 11. a) List down the basic characteristics of cloud computing.
(OR)
b) Discuss on the pros and cons of cloud computing.
- 12. a) Explain the virtualization structures.
(OR)
b) Describe the different types of virtualization.
- 13. a) Discuss on the design challenges of cloud infrastructure.
(OR)
b) Write a note on Global exchange of Cloud Resources.
- 14. a) Review on Hadoop Library from Apache.
(OR)
b) Discuss on the following :
(i) Google App Engine
(ii) Open Nebula
- 15. a) What are the security aspects provided with cloud?
(OR)
b) Discuss about Data Security.

PART C

5 x 7 = 35

Answer ALL questions

Each answer should not exceed 600 words or three pages

- 16. a) Explain the NIST cloud computing reference architecture
(OR)
b) Discuss on cloud services and cloud models.
- 17. a) Describe the virtualization implemented at the different levels.
(OR)
b) Analyze virtualization in data centers automation.
- 18. a) Explain Layered cloud architecture development.
(OR)
b) Discuss on inter cloud resource management.
- 19. a) Explain the Iterative Map Reduce programming model using Twister.
(OR)
b) Discuss with example the Elastic Utility Computing Architectures for Linking your programs to useful systems (EUCALYPTUS).
- 20. a) Explain the security architecture design framework.
(OR)
b) Explain virtual machine security

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