

(6 pages)

Reg. No. :

Code No. : 10343 E Sub. Code : AECS 53

B.Sc. (CBCS) DEGREE EXAMINATION,
APRIL 2023

Fifth Semester

Computer Science - Major Elective

CLOUD COMPUTING

(For those who joined in July 2020 only)

Time : Three hours Maximum : 75 marks

PART A — (10 × 1 = 10 marks)

Answer ALL questions.

Choose the correct answer :

1. A _____ is a cloud computing service that is both hardware and software.
(a) service (b) platform
(c) model (d) all of the mentioned
2. Cloud computing doesn't require that _____ and software be composable.
(a) cloud (b) database
(c) hardware (d) all of the mentioned
3. Which of the architectural layer is used as backend in cloud computing?
(a) client (b) cloud
(c) soft (d) all of the mentioned
4. A _____ cloud requires virtualized storage to support the staging and storage of data.
(a) soft (b) compute
(c) local (d) none of the mentioned
5. _____ is a cloud computing service model in which hardware is virtualized in the cloud.
(a) IaaS (b) CaaS
(c) PaaS (d) None of the mentioned
6. _____ serves as a PaaS vendor within Google App Engine system.
(a) Google (b) Amazon
(c) Microsoft (d) All of the mentioned
7. _____ provides virtual machines, virtual storage, virtual infrastructure, and other hardware assets.
(a) IaaS (b) SaaS
(c) PaaS (d) All of the mentioned

8. Which of the following is a man-in-the-middle type of service?
(a) CaaS (b) IaaS
(c) AaaS (d) All of the mentioned
9. _____ as a Service is a hosted application that is the cloud equivalent of a traditional desktop application.
(a) Software (b) Platform
(c) Analytics (d) Compliance
10. _____ as a Service is a development environment that builds upon an existing cloud computing application infrastructure.
(a) Software (b) Platform
(c) Analytics (d) Compliance

PART B — (5 × 5 = 25 marks)

Answer ALL questions, choosing either (a) or (b).
Each answer should not exceed 250 words.

11. (a) Elaborate the characteristics of cloud computing.
Or
(b) What are the advantages and disadvantages of cloud computing? Explain.

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12. (a) Describe the challenges of mobile computing
Or
(b) Write down the load balancing approach in cloud.
13. (a) Explain the various components of SOA.
Or
(b) Mention the objectives of cloud security.
14. (a) Point out the issues of quality of cloud services.
Or
(b) Determine the techniques of cloud trust management.
15. (a) Enumerate the cloud computing adoption in India.
Or
(b) Summarize the components of Eucalyptus.

PART C — (5 × 8 = 40 marks)

Answer ALL questions, choosing either (a) or (b).
Each answer should not exceed 600 words.

16. (a) Discuss the types of cloud development models.
Or
(b) Compare the traditional and cloud computing paradigms.

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17. (a) Examine the cloud computing reference architecture.

Or

(b) What are the various types of virtualization? Explain.

18. (a) Illustrate the business management platform as a service.

Or

(b) What are the legal issues in cloud computing? Explain.

19. (a) Draw and explain the cloud disaster recovery architecture.

Or

(b) Evaluate the types of migration for cloud enabled applications.

20. (a) Formulate the different layers of OpenNebula.

Or

(b) Analysis the factors affecting cloud computing adoption.
