(6 pages)   Reg. No. : ....

Code No. : 20343 E   Sub. Code : AECS 53

B.Sc. (CBCS) DEGREE EXAMINATION,
NOVEMBER 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. _____ computing refers to applications and services that run on a distributed network using virtualized resources.

    (a) Distributed

    (b) Cloud

    (c) Soft

    (d) Parallel

2. Which of the following cloud concept is related to pooling and sharing of resources?

    (a) Polymorphism

    (b) Abstraction

    (c) Virtualization

    (d) None of the mentioned

3. _____ has many of the characteristics of what is now being called cloud computing.

    (a) Internet

    (b) Softwares

    (c) Web Service

    (d) All of the mentioned

4. Which of the following can be identified as cloud?

    (a) Web Applications

    (b) Intranet

    (c) Hadoop

    (d) All of the mentioned

5. _____ refers to the location and management of the cloud's infrastructure.

    (a) Service

    (b) Deployment

    (c) Application

    (d) None of the mentioned

6. Which of the following is deployment model?

    (a) Public

    (b) Private

    (c) Hybrid

    (d) All of the mentioned

7. Cloud computing is a _____ system and it is necessarily unidirectional in nature.

    (a) Stateless

    (b) Stateful

    (c) Reliable

    (d) All of the mentioned

8. Which of the following is most important area of concern in cloud computing?

    (a) Security

    (b) Storage

    (c) Scalability

    (d) All of the mentioned

9. You can't count on a cloud provider maintaining your _____ in the face of government actions.

    (a) Scalability

    (b) Reliability

    (c) Privacy

    (d) None of the mentioned

10. Which of the following is one of the unique attribute of Cloud Computing?

    (a) Utility type of delivery

    (b) Elasticity

    (c) Low barrier to entry

    (d) All of the mentioned

PART B — (5 × 5 = 25 marks)

Answer ALL questions, choosing either (a) or (b).

Each answer should not exceed 250 words.

11. (a) What are the fundamentals of the cloud computing ecosystem? Explain.

    Or

    (b) Describe the technical characteristics of cloud computing.

12. (a) Elaborate the need of mobile cloud computing.

    Or

    (b) How the virtualization works?

13. (a) Write dovm the web services and SOA.

    Or

    (b) Point out the data privacy risks in the cloud.

14. (a) Explain the disaster recovery as a service.

Or

(b) Analysis the challenges of the cloud disaster recovery.

15. (a) Summarize the need of Message Passing Interface (MPI).

Or

(b) Mention the features of Open Nebula.

PART C — (5 × 8 = 40 marks)

Answer ALL questions, choosing either (a) or (b).

Each answer should not exceed 600 words.

16. (a) Compare the clustering computing and grid computing.

Or

(b) Determine the methods of cloud usage monitor.

17. (a) Outline the various phases of cloud computing life cycle.

Or

(b) Illustrate the architecture of mobile cloud computing.

18. (a) Draw and explain the cloud CIA security model.

Or

(b) Elaborate the risk management process for cloud customers.

19. (a) Discuss the components of a cloud SLA.

Or

(b) Analysis the migration of a local server into cloud.

20. (a) Demonstrate the Map reduce programming model.

Or

(b) Formulate the cloud computing in agriculture.

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