

PSG COLLEGE OF ARTS & SCIENCE
(AUTONOMOUS)

BSc DEGREE EXAMINATION MAY 2024
(Fifth Semester)

Branch – INFORMATION TECHNOLOGY

CLOUD COMPUTING

Time: Three Hours

Maximum: 50 Marks

SECTION-A (5 Marks)

Answer ALL questions

ALL questions carry EQUAL marks

(5 x 1 = 5)

1. _____ were the first example of large computational facilities leveraging multiple processing units.
(i) Grids (ii) Clusters.
(iii) Mainframes (iv) Cloud Computing
2. _____ can increase the performance of the guest program by offloading most of its execution to the host without any change.
(i) Server virtualization (ii) End-user (desktop) virtualization
(iii) Para virtualization (iv) full virtualization
3. _____ is a type of cloud computing service.
(i) Service-as-a-Software (ii) Software-and-a-Server
(iii) Software-as-a-Service (iv) Software-as-a-Server
4. _____ provides both an application model and a service model that can be easily extended to integrate new services and programming models.
(i) Aneka (ii) Aneka Container
(iii) Aneka Cloud (iv) Aneka nodes
5. _____ is a platform that allows the development of flexible applications by providing solutions for elastic infrastructure scalability, messaging, and data storage.
(i) Amazon Web Services (ii) Amazon Elastic Compute
(iii) Amazon Simple Storage Service (iv) Amazon RDS

SECTION - B (15 Marks)

Answer ALL Questions

ALL Questions Carry EQUAL Marks

(5 x 3 = 15)

- 6 a. Explain the criteria's used to discriminate whether a service is delivered in the cloud computing style according to Reese.
OR
b. Explain two important concepts that are introduced and diffused in Service-oriented computing.
- 7 a. Explain the characteristics of virtualized environments.
OR
b. Classify the phenomena due to which virtualization techniques have gained interest.
- 8 a. Outline the main characteristics of a Platform-as-a-Service solution.
OR
b. Highlighted the key advantages of using a private cloud computing infrastructure.

- 9 a. Outline the features of Platform Abstraction Layer.
OR
b. Explain about Profiling and monitoring built-in services.
- 10 a. Discuss about AWS.
OR
b. Explain about SQL Azure Architecture.

SECTION -C (30 Marks)

Answer ALL questions

ALL questions carry EQUAL Marks

(5 x 6 = 30)

- 11 a. Summarize the overview of the evolution of the distributed computing technologies influencing cloud computing.
OR
b. Examine various categories of Computing platforms and technologies of cloud computing.
- 12 a. Analyze Virtualization technologies and approaches .
OR
b. Discuss about various classification of techniques in the taxonomy of virtualization techniques.
- 13 a. Highlight the challenges in cloud computing.
OR
b. Discuss in detail about Infrastructure-as-a-service.
- 14 a. Elucidate in detail about building Aneka Clouds.
OR
b. Enumerate in detail about Cloud programming and management .
- 15 a. Discuss in detail about scientific cloud applications.
OR
b. Discuss about Business and consumer applications.

Z-Z-Z END