

PSG COLLEGE OF ARTS & SCIENCE  
(AUTONOMOUS)

BSc DEGREE EXAMINATION DECEMBER 2023  
(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. \_\_\_\_\_ identifies a set of functional and nonfunctional attributes that can be used to evaluate the behavior of a service from different perspectives.  
(i) Service-oriented architecture (ii) Quality of service  
(iii) Service-oriented computing (iv) Software-as-a-Service
2. Xen is the most popular implementation of \_\_\_\_\_.  
(i) Server virtualization (ii) End-user (desktop) virtualization  
(iii) Para virtualization (iv) full virtualization
3. In \_\_\_\_\_ service models the hardware is virtualized in the cloud.  
(i) NaaS (ii) PaaS  
(iii) CaaS (iv) IaaS
4. \_\_\_\_\_ represents the deployment unit of Aneka Clouds.  
(i) Platform (ii) Container  
(iii) Application (iv) Infrastructure
5. \_\_\_\_\_ allows users to create and edit text documents, spreadsheets, presentations, forms, and drawings.  
(i) Windows Live (ii) Amazon Cloud Drive  
(iii) CloudMe (iv) Google Docs

SECTION - B (15 Marks)

Answer ALL Questions

ALL Questions Carry EQUAL Marks (5 x 3 = 15)

- 6 a Explain the Characteristics of cloud computing.  
OR  
b Explain key technologies and standard elements that are relevant to sensor networks.
- 7 a Explain various features of execution environment in Virtualization.  
OR  
b Classify two major types of hypervisor.
- 8 a Classify various categories in PaaS.  
OR  
b Discuss about the characteristics of SaaS specified by ASPs.
- 9 a Outline the services involved in Aneka Framework.  
OR  
b Outline the Service life cycle in the Aneka Container.

Cont...

- 10 a Explain about Google AppEngine platform architecture.  
OR  
b Explain about the EyeOS architecture.

**SECTION -C (30 Marks)**

Answer ALL questions

ALL questions carry EQUAL Marks

(5 x 6 = 30)

- 11 a Summarize the cloud computing reference model.  
OR  
b Examine various categories of Computing platforms and technologies of cloud computing.
- 12 a Discuss about Pros and cons of virtualization.  
OR  
b Discuss about the architecture of Hyper-V.
- 13 a Highlight cloud computing architecture with a neat diagram.  
OR  
b Outline four different types of cloud.
- 14 a Elucidate in detail about the anatomy of the Aneka container.  
OR  
b Describe about Aneka Application model and Aneka Service model.
- 15 a Discuss in detail about six major categories of EC2 instances.  
OR  
b Discuss about media applications that use cloud technologies.

Z-Z-Z

END