

PSG COLLEGE OF ARTS & SCIENCE
(AUTONOMOUS)

MSc(SS) DEGREE EXAMINATION MAY 2024
(Sixth Semester)

Branch – SOFTWARE SYSTEMS (five year integrated)

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 _____ is made up of a number of resources and layers with different levels of implementation.
(i) Grid (ii) Cloud
(iii) Services (iv) Information
- 2 _____ service provides a software development environment that enables rapid deployment of new applications.
(i) SaaS (ii) PaaS
(iii) IaaS (iv) DaaS
- 3 What is the need for virtualization?
(i) To reduce the complexity
(ii) To decrease the utilization of information
(iii) To build homogeneous infrastructure
(iv) To delay in SLA response times
- 4 Which of the following is true about Map Reduce?
(i) It is a batch processing system
(ii) It is a real time processing system
(ii) It can only process structured data
(iv) It can only process data stored in HDFS
- 5 Amazon _____ is well suited to transfer bulk amount of data.
(i) EC1 (ii) EC2
(iii) EC3 (iv) EC4

SECTION - B (15 Marks)

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

- 6 a Discuss the client server architecture with diagram.
OR
b Explain the real time applications in computing.
- 7 a Compare the private and public clouds.
OR
b Summarize about the Functions of Laas.
- 8 a Illustrate the architecture for virtualization in cloud.
OR
b Explain the concept of Mashup in detail.

Cont...

- 9 a Analyze the phases of Map reduce data flow.
OR
b Illustrate the Google Big Table in Cloud.
- 10 a Discuss the importance of Amazon EC2 technology.
OR
b Summarize the advantages of IBM blue cloud.

SECTION -C (30 Marks)

Answer ALL questions

ALL questions carry EQUAL Marks

(5 x 6 = 30)

- 11 a Explain the basic concept and functions of SOA with neat diagram.
OR
b Illustrate the distributed computing model with diagram.
- 12 a Sketch the comparison of cloud computing with grid and cluster computing.
OR
b Elucidate about the SaaS and PaaS in detail.
- 13 a Analyze the various types of virtualization.
OR
b Explain the requirements of Ajax technology in detail.
- 14 a Elucidate the GFS architecture with neat diagram.
OR
b Enumerate the Microsoft's Azure infrastructure with diagram.
- 15 a Elucidate the Aneka frame work in detail.
OR
b Analyze distributed search engine and its architecture.

Z-Z-Z

END