## PSG COLLEGE OF ARTS & SCIENCE
### (AUTONOMOUS)

## MSc(SS) DEGREE EXAMINATION MAY 2023
### (Sixth Semester)

### Branch – SOFTWARE SYSTEMS (Five Years Integrated)

## CLOUD COMPUTING

Time: Three Hours                                              Maximum: 75 Marks

### SECTION-A (10 Marks)
Answer ALL questions
ALL questions carry EQUAL marks                (10 x 1 = 10)

1    _____ computing refers to applications and services that run on a distributed network using virtualized resources.
   i) Distributed                          ii) Cloud
   iii) Soft                               iv) Parallel

2    Which of the following cloud concept is related to pooling and sharing of resources?
   i) Polymorphism                         ii) Abstraction
   iii) Virtualization                     iv) inheritance

3    _____ has many of the characteristics of what is now being called cloud computing.
   i) Internet        ii) Software        iii) Web Service      iv) hardware

4    Which of the following can be identified as cloud?
   i) Web Applications                     ii) Intranet
   iii) Hadoop                             iv) AWS

5    _____ refers to the location and management of the cloud's infrastructure.
   i) Service        ii) Deployment        iii) Application      iv) security

6    Which of the following is deployment model?
   i) public                               ii) private
   iii) hybrid                             iv) public, private and hybrid

7    Cloud computing is a _____ system and it is necessarily unidirectional in nature.
   i) stateless       ii) stateful         iii) reliable        iv) controllable

8    Which of the following is most important area of concern in cloud computing?
   i) Security        ii) Storage          iii) Scalability     iv) accessibility

9    You can't count on a cloud provider maintaining your _____ in the face of government actions.
   i) scalability     ii) reliability      iii) privacy         iv) dynamic

10   _____ as a Service is a development environment that builds upon an existing cloud computing application infrastructure.
   i) Software        ii) Platform         iii) Analytics       iv) Compliance

### SECTION - B (25 Marks)
Answer ALL questions
ALL questions carry EQUAL Marks          (5 x 5 = 25)

11   a)   Analysis the real time applications of utility computing.
                         OR
     b)   Determine the pros and cons of utility computing.

12  a)    Explain the complete history of cloud computing.
          OR
    b)    Illustrate the main functions of IaaS.

13  a)    Show the different types of virtualization.
          OR
    b)    Evaluate the need of virtualization of cloud.

14  a)    Discuss the GFS architecture with neat diagram.
          OR
    b)    Assume the functions of map reduce programming.

15  a)    State the advantages of Aneka frame work.
          OR
    b)    Organize the applications of distributed search engines.

## SECTION -C (40 Marks)
Answer ALL questions
ALL questions carry EQUAL Marks        (5 x 8 = 40)
*Question no. 16 is compulsory*

16        Analyze the complete architecture of distributed computing.

17  a)    Differentiate between the SaaS and PaaS.
          OR
    b)    Enumerate the deployment models of cloud computing.

18  a)    Elucidate the implementation of AJAX and Mashup.
          OR
    b)    Assess the architecture of VVM with diagram.

19  a)    Formulate the architecture and functions of HDFS.
          OR
    b)    Evaluate the need of Microsoft Azure infrastructure.

20  a)    Discuss the importance of IBM blue cloud.
          OR
    b)    Outline the distributed data mining in the cloud.

Z-Z-Z                    END