PSG COLLEGE OF ARTS & SCIENCE
(AUTONOMOUS)
BSc DEGREE EXAMINATION MAY 2025
(Sixth Semester)

Branch – INFORMATION TECHNOLOGY

CLOUD COMPUTING & SERVICES

Time: Three Hours   Maximum: 50 Marks

SECTION-A (5 Marks)
Answer ALL questions
ALL questions carry EQUAL marks   (5 x 1 = 5)

1   What is cloud computing?
    (i) Delivery of computing services over the internet
    (ii) A physical storage device
    (iii) A programming language
    (iv) A software development methodology

2   What is Amazon RDS?
    (i) A NoSQL database service
    (ii) A managed relational database service
    (iii) A serverless computing service
    (iv) A cloud-based storage solution

3   Which language is primarily used to query data in BigQuery?
    (i) Python   (ii) JavaScript
    (iii) SQL   (iv) R

4   Which cloud service model provides a complete development and deployment
    environment in the cloud?
    (i) IaaS   (ii) PaaS
    (iii) SaaS   (iv) FaaS

5   What is the main benefit of cloud computing in transportation?
    (i) Improved route optimization and real-time tracking
    (ii) Increased fuel consumption
    (iii) Higher operational costs
    (iv) Reduced internet connectivity

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

6   a   What are the 5 characteristics of cloud computing?
                            OR
    b   Explain in detail the various Key Components of an SLA

7   a   What is Google Compute Engine and what are its key features?
                            OR
    b   Discuss on Amazon DynamoDB?

8   a   Define and explain with an example of a cloud-based email?
                            OR
    b   Explain in detail on open source private cloud software.

9   a   Choose an Service-Oriented Architecture.
                            OR
    b   Summarise Cloud Reference Architecture with its framework.

10   a   Prepare the cloud computing manufacturing industry.

<center>OR</center>

     b   Explain the importance of data security and compliance in cloud-based healthcare systems.

<center>**SECTION -C (30 Marks)**
Answer ALL questions
ALL questions carry **EQUAL** Marks   (5 x 6 = 30)</center>

11   a   What kind of applications are considered as cloud services? Explain

<center>OR</center>

     b   Explain the different cloud deployment models with their advantages and use cases.

12   a   Classify the Amazon Simple Storage Service and use cases.

<center>OR</center>

     b   Determine the Key points of queuing services

13   a   What is Windows Azure? Discuss the key benefits of using Microsoft Azure for businesses.

<center>OR</center>

     b   Compare of Cloud Stack and Apache Cloud Stack.

14   a   What are Iaas, Paas and Saas? Explain with its benefits and advantages.

<center>OR</center>

     b   Elucidate on design consideration for cloud application

15   a   Describe on cloud computing works for energy systems ? Describe.

<center>OR</center>

     b   Explain the role of cloud computing in transforming the education sector

<center>Z-Z-Z   END</center>