

PSG COLLEGE OF ARTS & SCIENCE
(AUTONOMOUS)

BSc DEGREE EXAMINATION MAY 2026
(Sixth Semester)

Branch – COMPUTER TECHNOLOGY

CLOUD COMPUTING

Time: Three Hours

Maximum: 75 Marks

SECTION-A (10 Marks)

Answer ALL questions

ALL questions carry EQUAL marks

(10 × 1 = 10)

Module No.	Question No.	Question	K Level	CO
1	1	Cloud computing delivers services over _____. (i) Local network (ii) Internet (iii) USB (iv) Standalone system	K1	CO1
	2	Why is cloud computing cost-effective? (i) Requires more hardware (ii) Uses pay-per-use model (iii) Needs manual setup (iv) Uses local servers only	K2	CO1
2	3	Virtualization enables _____. (i) One OS per machine only (ii) Multiple OS on a single machine (iii) No OS usage (iv) Hardware removal	K1	CO2
	4	Resource pooling in virtualization means _____. (i) Dedicated resources for one user (ii) Sharing resources among multiple VMs (iii) No sharing allowed (iv) Offline usage	K2	CO2
3	5	PaaS is mainly used for _____. (i) Hardware maintenance (ii) Application development and deployment (iii) Data storage only (iv) Network configuration	K1	CO3
	6	Which scenario best represents IaaS? (i) Using Gmail (ii) Renting virtual servers (iii) Writing code locally (iv) Using MS Word offline	K2	CO3
4	7	Aneka is a _____. (i) Operating System (ii) Cloud Application Platform (iii) Programming Language (iv) Database	K1	CO4
	8	The Platform Abstraction Layer helps in _____. (i) Tying software to specific hardware (ii) Making applications independent of hardware (iii) Increasing system errors (iv) Reducing portability	K2	CO4
5	9	Google App Engine is a _____. (i) IaaS (ii) PaaS (iii) SaaS (iv) DaaS	K1	CO5
	10	Multiplayer online gaming uses cloud for _____. (i) Offline play (ii) Real-time interaction and scalability (iii) Manual processing (iv) No networking	K2	CO5

Cont...

SECTION - B (35 Marks)

Answer ALL questions

ALL questions carry EQUAL Marks

(5 × 7 = 35)

Module No.	Question No.	Question	K Level	CO
1	11.a.	Define cloud computing and list its key characteristics.	K1	CO4
		(OR)		
	11.b.	List and state the benefits and challenges of cloud computing.		
2	12.a.	Explain the characteristics of a virtualized environment.	K2	CO1
		(OR)		
	12.b.	Discuss the advantages and disadvantages of virtualization.		
3	13.a.	Apply the cloud service models to a real-world scenario and illustrate their usage.	K3	CO3
		(OR)		
	13.b.	Demonstrate how different types of cloudS are used in practical applications.		
4	14.a.	Apply the architecture of Aneka and illustrate how the Aneka container manages cloud services.	K3	CO2
		(OR)		
	14.b.	Demonstrate how different service layers are used in building an Aneka-based cloud.		
5	15.a.	Apply cloud platforms to a real-world scenario and illustrate the use of services in Amazon Web Services.	K3	CO5
		(OR)		
	15.b.	Demonstrate how cloud applications are used in scientific domains such as healthcare.		

SECTION -C (30 Marks)

Answer ANY THREE questions

ALL questions carry EQUAL Marks

(3 × 10 = 30)

Module No.	Question No.	Question	K Level	CO
1	16	Describe the cloud computing reference model and list the different computing platforms and technologies used in cloud computing.	K1	CO4
2	17	Explain virtualization and describe its techniques with suitable examples.	K2	CO1
3	18	Apply the cloud computing architecture to design a solution for a business organization.	K3	CO3
4	19	Apply the Aneka framework to design a cloud environment with a suitable case study.	K3	CO2
5	20	Apply cloud platforms like Amazon Web Services, Google App Engine, and Microsoft Azure to design a real-world application.	K3	CO5

Z-Z-Z

END