

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

**BCA DEGREE EXAMINATION MAY 2026
(Sixth Semester)**

Branch -COMPUTER APPLICATIONS

CLOUD APPLICATIONS AND DEVELOPMENT

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	What is the benefit of dynamic resource provisioning? (i) Meeting varying workload demands (ii)Fixed workload handling (iii)Reducing internet speed (iv) Eliminating SLAs	K1	CO1
	2	The working principle of Low Latency load balancing in cloud establishes (i)Circular order (ii)Fewest connections (iii)Lowest response time (iv) Random selection	K2	CO1
2	3	When does a user select or create mkeypair? (i)During billing (ii)After shutting down (iii)After deleting the instance (iv))while launching anew instance	K1	CO2
	4	The main function of application runtimes in cloud computing (i)Designing computer hardware (ii) Selling cloud services (iii)Auto resource allocation & scaling (iv) Creating physical servers	K2	CO2
3	5	Reliability of a system is _____. (i)Speed of the system (ii)Probability of performing intended functions over time (iii)Number of users supported (iv)Storage capacity	K1	CO3
	6	How CCM differs from SOA in messaging? (i) CCM uses SOAP only (ii) CCM uses REST and HTTP for messaging (iii) SOA does not use web services (iv) CCM does not support browsers	K2	CO3
4	7	What does RTMFP stand for? (i)Real-Time Media Flow Protocol (ii)Real-Time Messaging and File Protocol (iii)Real-Time Media Flow Platform (iv)Real-Time Multicast Fusion Protocol	K1	CO4
	8	Relate scaling decisions to workload conditions (i)Ignore workload (ii) Based on workload (iii)Random scaling (iv) After failure	K2	CO4

Cont...

5	9	Which type of attacks will SAML helps to prevent? (i)Phishing attacks (ii)SQL injection (iii)Man-in-the-middle and replay attacks (iv)Brute force attacks	K1	CO5
	10	Which of the following is an example of Condition Monitoring? (i)Billing (ii)Monitoring temperature in containers (iii)Order booking (iv)Scheduling	K2	CO5

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.	Explain the cloud development model in cloud computing	K2	CO1
		(OR)		
		Interpret about load balancing in workload distribution.		
	2.a.	Illustrate cloud computing reference model and services.	K2	CO2
		(OR)		
	12.b.	Summarize deployment & management services in cloud environment.		
3	13.a.	Construct the deployment architecture for e commerce, business to business, Banking and financial applications.	K3	CO3
		(OR)		
	13.b.	Identify the concept of WSDL 2.0 and Specify its workflow.		
4	14.a.	Inspect the workflow for live video streaming app in cloud.	K4	CO4
		(OR)		
	14.b.	Analyze the workload characteristics and draw traditional performance evaluation workflow based on semi-automated approach.		
5	15.a.	Survey the symmetric key encryption algorithms with suitable diagrams.	K4	CO5
		(OR)		
	15.b.	Analyze the cloud computing for education system.		

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	Elaborate on cloud based services and applications.	K6	CO1
2	17	Compare SQL and NO-SQL databases.	K3	CO2
3	18	Outline the data storage approaches with their pros and cons.	K2	CO3
4	19	Examine load testing and bottleneck detection with suitable diagrams.	K4	CO4
5	20	Analyze the single sign on system in Authentication.	K4	CO5

Z-Z-Z END