PSG COLLEGE OF ARTS & SCIENCE
(AUTONOMOUS)

MCA DEGREE EXAMINATION MAY 2024
(Second Semester)

Branch- **COMPUTER APPLICATIONS**

MAJOR ELECTIVE COURSE – I: CLOUD ARCHITECTURE AND SERVICES

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	One of the core technology of cloud is a) Virtualization b) Computation c) Processing d) Storage	K1	CO1
	2	In cloud Service-Oriented computing is a) Tightly coupling b) Loosely coupling c) Both (a) and (b) d) None of these	K2	CO1
2	3	The specific software used to manage VPN a) VPN routine b) VPN server c) VPN manager d) VPN client	K1	CO2
	4	The most popular network based on virtualization is called a) VLAN b) SAN c) VPN d) SPN	K2	CO2
3	5	The programming API and framework products are under the category of a) SaaS b) PaaS c) IaaS d) HaaS	K1	CO3
	6	Select the pricing model that is not offered by Cloud. a) Auction pricing b) Tiered pricing c) per unit pricing d) Subscription based pricing	K2	CO3
4	7	The AWS platform is accessible through a) SOAP b) RESTful c) Both (a) and (b) d) None of these	K1	CO4
	8	Which one provides isolated and protected environment for applications? a) Data store b) Sandboxing c) Boxing and unboxing d) Protect boxing	K2	CO4
5	9	Green cloud computing is envisioned to achieve a) Efficient processing b) Efficient usage of Infrastructure c) Minimize energy consumption d) All of these	K1	CO5
	10	A loss of unencrypted electronic stored information called a) Data Loss b) Data breach c) Data Corrupt d) Data crash	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.	Classify various definitions of cloud computing.	K3	CO1
		(OR)		
	11.b.	Depict the importance of primary interface Web 2.0.		
2	12.a.	Illustrate recently gained different phenomenon of Virtualization techniques.	K3	CO2
		(OR)		
	12.b.	Compare and analyze virtualization with cloud computing.		
3	13.a.	Examine different tasks performed by infrastructure management software layer.	K4	CO3
		(OR)		
	13.b.	Justify hybrid cloud benefits over the private and public clouds.		
4	14.a.	Summarize some examples of cloud offering vendors and their services.	K4	CO4
		(OR)		
	14.b.	Infer the application services of Google APPEngine.		
5	15.a.	Deduct the components of Green Resource Allocator.	K5	CO5
		(OR)		
	15.b.	Test the characteristics and definition of Intercloud.		

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	Develop the reference model of cloud computing.	K4	CO1
2	17	Judge some advantages of virtualized solution characteristics.	K5	CO2
3	18	Justify how PaaS provides solution for running applications.	K6	CO3
4	19	Discuss on Amazon Web Services with appropriate instance.	K6	CO4
5	20	Depict the high level system architecture of green cloud computing.	K5	CO5

Z-Z-Z   END