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

# **BSc DEGREE EXAMINATION MAY 2025**

(Sixth Semester)

# Branch - INFORMATION TECHNOLOGY

NOSQL DATABASES						
Time: Three Hours				Maximum: 50 Marks		
$\frac{\text{SECTION-A (5 Marks)}}{\text{Answer ALL questions}}$ $\text{ALL questions carry EQUAL marks} \qquad (5 \times 1 = 5)$						
1	it i: (i)	nat in big data refers to the spenser in big data refers to the spenser in the sp	(ii)	which data is creat variety veracity	ed and the s	peed at which
2	(i) (iii	hat type of database is mongo relational i) graph	(ii) (iv)	document oriente keyvalue		
3	(i) (ii	i) reducer	(ii) (iv)	reducer	,	
4	da (i)	hich type of database is Apac tabase? relational i) document	(ii)	ssandra, a massivel graph nosql	y scalable o	pen-source
5	W (i)	Thich language is used to query SQL i) NoSQL	(11)	andra? CQL DQL		
		Answ	er AL	B (15 Marks) L Questions rry EQUAL Mark	s	$(5 \times 3 = 15)$
6	a	Explain the various sources OR		•	_	
7	b a	Outline the advantages of NO Show the importance of JSO OR	N.	•		
	b	Describe data balancing prod	ess of	sharding.		
8	a	Explain the delete query.  OR		adven		
	b	Prepare some advantages of				
9	a	State the importance of column OR		iavasc.		
10				Cassandra.		
9	ъ	OR  Explain about graph databas  How to remove the keyspace	ie.			

OR

b

Discuss on tuple?

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#### SECTION -C (30 Marks)

Answer ALL questions

ALL questions carry EQUAL Marks

 $(5 \times 6 = 30)$ 

11 a Categorize the three V's of big data.

OR

- b Compare ACID vs BASE.
- 12 a Discuss the tools of MongoDB and explain them.

OR

- b Examine the process of Master/Slave replication.
- 13 a Discuss the create and insert query in MongoDB.

OR

- b Justify the need of regular expression.
- 14 a Discover the importance of key value database.

OR

- b Analyze the drawbacks of Cassandra's.
- 15 a Identify the key concepts of dropping and truncating tables in Cassandra.

OR

b Classify the need of various aggregate functions.

**END** 

Z-Z-Z