PSG COLLEGE OF ARTS & SCIENCE (AUTONOMOUS)

BCA DEGREE EXAMINATION MAY 2024

(Sixth Semester)

Branch - COMPUTER APPLICATIONS

DISCIPLINE SPECIFIC ELECTIVE - II: ADVANCED DATABASE TECHNOLOGIES

Time	e: T	Three Hours		Maximum: 50 Marks	
SECTION-A (5 Marks)					
Answer ALL questions ALL questions carry EQUAL marks					$(5 \times 1 = 5)$
1)		a) Image	b) Text	c) Table	d) Graph
2)		What is information a) Hyper data		c) Meta data	d) Relations
3)		The recovery scheme a) High availability	e must also provide _ b) Low availability	c) High reliability	d) High durability
4)	(Which one of the following refers to the copies of the same data (or information) occupying the memory space at multiple places? a) Data Repository b) Data Inconsistency c) Data Mining d) Data Redundancy			
5)		The database manag enables us to create a) Translators	ement system can be and maintain the data b) Programs	considered as the collabase. c) Keys	d) Language activity
SECTION - B (15 Marks)					
Answer ALL Questions					
ALL Questions Carry EQUAL Marks $(5 \times 3 = 15)$					
6) a) Explain the steps to protecting against media failure. OR					
	b)	Narrate the audit tr	ails in database secur	ity.	
7)	a) Distinguish between the centralized DBMS and distributed DBMS. OR				BMS.
	b)	Describe the transp	parency issue in DDB	MS.	
8)	a) Show the limitations of relational database. OR				
	b)	Outline the XML o	uery and transformat	ion with example.	
9)	a) State the emergence of multimedia database. OR				
	b)	Analyze the salient features of Gnome databases.			
10)	a)	Describe the major purpose of personal databases. OR			
	b)	Summarize the usa	ge of web databases.		
					Cont

SECTION -C (30 Marks)

Answer ALL questions
ALL questions carry EQUAL Marks

 $(5 \times 6 = 30)$

11) a) Analyze the steps to generating logical query plan from parse tree.

OR

- b) Compare and construct discretionary access control and mandatory access control.
- 12) a) Discuss the distributed commit protocols 2PC and 3PC.

OR

- b) Examine the functions of distributed deadlock management.
- 13) a) Identify the difference between semi-structured and unstructured data.

OR

- b) Enumerate the importance of XML hierarchical model.
- 14) a) Discover the different types of multimedia database.

OR

- b) Assume the structure of multimedia database.
- 15) a) Elucidate the functions of wireless networks and databases.

OR

b) Determine the implementation of digital libraries.

Z-Z-Z

END