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BRAINWARE UNIVERSITY

Term End Examination 2024-2025

Programme – B.Tech.(CSE)-DS-2021/B.Tech.(CSE)-DS-2022

Course Name – Intelligent Database System

Course Code - PEC-CSD602A

(Semester VI)

	Marks: 60	Time : 2:30 H	Hours		
ון	he figure in the margin indicates full marks. Can	didates are required to give their answers in th	neir		
	own words as fa	r as practicable.]			
	Grou	up-A			
1.	(Multiple Choice Type Question)		5=15		
1.	Choose the correct alternative from the following:				
/: \					
(i)	System is the primary goal of Predictive	Analytics in an Intelligent Database			
(ii)	a) Identifying patterns and trends in datac) Real-time data processingState the role does Clustering play in an Intelli	b) Storing large volumes of datad) Managing database transactionsigent Database System			
	a) Enhances data security c) Organizes data into groups based on similarities	 b) Identifies patterns and trends in data d) Speeds up data retrieval 			
(iii)	State the contribution of Big Data to the capa	ate the contribution of Big Data to the capabilities of an Intelligent Database System			
	a) Optimizes indexing techniques c) Handles and analyzes large volumes of diverse data	b) Enhances data security measures d) Improves data retrieval speed			
(iv)	State the primary advantage of using an Intel processes	ligent Database System in decision-making			
	a) Increased data redundancy	b) Reduced operational costs			
	c) Improved data security	d) Enhanced ability to analyze and prediction outcomes	ct		
(v)	query language is commonly used for Intelligent Database System	or interacting with databases in an			
	a) HTML c) SQL	b) Java d) Python			
(vi)	State the primary function of an "Expert Syst	tem" in an Intelligent Database System			
7	a) Handling database transactions c) Mimicking human expertise in decision-making	b) Optimizing indexing techniques d) Improving data retrieval speed			

70012	Select the term refers to the process of arrangi	detain a specific order to speed up)
1::	Soloct the term refers to the process of arrangi	ng data iii a sp -	
(VII) Select the term refers to the process data retrieval in an Intelligent Database System	b) Clustering	
	c) Data Warehousing	efit an Intelligent Database System	
(viii	a) Indexingc) Data Warehousing) State how does Real-Time Data Processing ben	b) Allows for instant analysis and de	cision-
	a) Enhances data security measures	making	
		d) Reduces data redundancy	
(ix)	c) Optimizes indexing techniques State what distinguishes a semi-structured data	abase from a traditional relational	
	database?	b) Semi-structured databases store	data in
	a) Semi-structured databases lack a schema.	tables.	tcupport
	c) Semi-structured databases allow for flexible data representation.	d) Semi-structured databases do not querying.	
(x)	data representation. Identify which approach is typically used to add	ddress information retrieval problems in	
(^/	unstructured data?		
	a) Keyword-based searching	b) Structured query language (SQL)	queries
	c) Relational database management systems	d) Decision trees	
(xi)	Choose the action word is relevant to the conceretrieval	ept of skip pointers in information	
	a) Evaluate	b) Analyze	
	c) Retrieve	d) Remember	
(xii)	State the role of document delineation play in user interaction		
	a) Enhancing search precision	b) Improving indexing efficiency	
	c) Facilitating user feedback	d) Providing autocomplete suggestion	ns
(xiii)	List the action word is associated with determin		
	a) Store	b) Retrieve	
7	c) Analyze Identify which of the following represents a hig	d) Remember	t
(XIV)	database?	Her level of litteringerice in an interingeri	
	a) Data Retrieval	b) Pattern Recognition	
	c) Predictive Analysis	d) Contextual Understanding	
(xv)	Choose the option that document frequency re		
	a) The frequency of a term within a document	b) The number of documents contain term	ing a
	c) The length of a document	d) The importance of a term in a docucollection	ıment
		a <u>.</u> goda	
	Grou	•	2 5-15
	(Short Answer Ty	pe Questions)	3 x 5=15
2 Hc	w Information Retrieval (IR) works in Intelligent	Database System?	(3)
	3. What you understand by Term Document Incident Matrix.		
4. Ex	plain how do skip pointers contribute to reducing		(3) (3)
	plain term frequency (TF) and its role in determi	ning the relevance of documents.	(3)
	alyze the primary purpose of advertising in the	economic model.	(3)
An	OF alyze the importance of index distribution in sea		(3)
,	and the state of t	\$ - 	(-)
	Grou	p-C	

(Long Answer Type Questions)

5 x 6=30

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	Illustrate the concepts of query processing, relevance ranking in Information Retrieval (IR) system.	(5)
€.	What is the significance of scoring in Information Retrieval? Estimate how document delineation contributes to the efficiency of document retrieval in intelligent databases.	(5) (5)
	Discuss the significance of statistical properties of terms such as term frequency (TF) and inverse document frequency (IDF) in information retrieval	(5)
11.	Examine the role of user interaction in case of Information Retrieval (IR) system. Explain the processing of Boolean Queries in Information Retrieval systems.	(5) (5)
	OR Give an example of a real-life information retrieval problem and explain it.	(5)
