[8]

No. of printed pages: 2

Max. Marks: 70

Time: 2:30 p.m. to 5:30 p.m.

SARDAR PATEL UNIVERSITY SARDAR PATEL UNIVERSITY

M.Sc. (Information Technology) Semester - III External Examinations

PS03EINT02 Data Mining and Data Warehousing 30th April, 2015

Q1.	Cho	ose the most appro	pria	te option for each question:		
a.			er car	n generate itself, enabling it to		
		y out new tasks.				
	A)	Programs	C)	Forms		
	B)	Databases	D)	None of these		
b.	Dec	ision support requir	es	which operational databases do		
	not	typically maintain.				
	A)	Current data	C)	A and B both		
	B)	Past data	D)	None of these		
c.		is	s the	exploration and analysis of large quantities of data in		
	orde	er to discover meaning	ngful	patterns and rules.		
	A)	Data warehousing	C)	Data marting		
	B)	Data mining	D)	None of these		
d.	The database size of OLAP is					
	A)	100 TB 100 MB-GB	C)	100 GB-TB		
	B)	100 MB-GB	D)	None of these		
e.	Creation of			is important to speed up the common queries. Classification		
	B)	Association	D)	None of these		
f.				is the system component that performs all the		
				ort the query management process.		
				Warehouse manager		
		Load manager	5			
g.			is a	backup that is taken while the database is completely		
		down.	~``			
	,			Complete backup		
		Current backup				
h.				kind of system that has responsibilities to the		
	_	rations of the busines				
		-		Mission critical system		
	B)	24X7 system	D)	None of these		

Q2.	Answer the following questions (Any Seven):	[14]
a.	Explain in brief about data mining tools.	
b.	What is Data warehouse? How it is different from operational database?	
c.	Explain the terms: (i) project planning and (ii) Project management	
d.	Draw architecture of data warehouse.	
e.	List types of horizontal partitioning.	
f.	Explain need of creating a temporary table first before designing structure of actual data warehouse.	
g.	Discuss need of tools to direct a data warehouse.	
h.	Explain in brief about server management.	
i.	Explain expenditure of data marting in short.	
Q3.	Answer the following questions:	
a.	Discuss process flow within a data warehouse taking suitable example.	[6]
b.	Write a short note on need of data mining.	[6]
	OR	
b.	Discuss project life cycle in Detail.	[6]
Q4.	Answer the following questions:	
a.	Write a short note on metadata.	[6]
b.	Discuss architecture of a load manager in detail.	[6]
	OR	
b.	Distinguish between data mart and data warehouse. Explain data mart in detail with diagram.	[6]
Q5.	Answer the following questions:	
a.	What is vertical partitioning? Explain it taking suitable examples.	[6]
b.	List various steps of designing summary tables. Explain each step in one or two lines.	[6]
	OR	
b.	Write a short note on the starflake schemas.	[6]
Q6.	Answer the following questions:	
a.	What is parallel query? Explain how does parallel query work?	[6]
b.	Explain network hardware architecture and its management.	[6]
	OR	` '
b.	Write a short note on Symmetric Multi-Processing.	[6]
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