Seat No. : _____

LD-115

April-2014

BCA : Sem.-VI

CC-308 : Database Administration

Tim	ne : 3	[Max.	[Max. Marks : 70		
Inst	ructio	ons :	(1)	Attempt all questions.	
			(2)	Make suitable assumptions wherever necessary.	
			(3)	Figures to the right indicate full marks.	
1.	(A)	Ans	wer tł	ne following questions :	8
		(a)	Exp	lain logical structure of the database in detail.	
		(b)	List	all the oracle process and explain any three in detail.	
				OR	
	(A)	Ans	wer tł	8	
		(a)	Defi	ine tablespace and explain its types.	
		(b)	Wri	te a short note on memory structures.	
	(B)	Ans	wer b	riefly :	6
		(a)	Wha	at do you mean by multitier architecture ? Explain.	
		(b)	Wri	te the syntax to alter the tablespace.	
				OR	
	(B)	Ans	wer b	riefly :	6
		(a)	Disc	cuss the steps for working of oracle database server.	
		(b)	Exp	lain the responsibilities of a database administrator.	
2.	(A)	Ans	wer th	ne following questions :	8
		(a)	Wri	te the syntax to create a control file using CONTROLFILE stater	nent.
		(b)	Disc	cuss the mechanism how the transaction are stored in the redo log	g files.
				OR	
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- (A) Answer the following questions :
 - (a) What is a oracle profile ? Create a profile that allows :
 - (i) 6 Concurrent sessions
 - (ii) 50 CPU per session
 - (iii) Idle time for 20 minutes
 - (iv) Connect time for 70 minutes
 - (v) Number of data blocks that can be called per session is unlimited
 - (vi) Number of data blocks that can be called per user is 1000
 - (b) Discuss system level roles in detail.
- (B) Answer briefly :

Answer briefly :

(B)

3.

- (a) How you can specify the location of the archive redo log files in the initialization parameter file ?
- (b) Explain relocating and dropping of redo log files.

OR

Define privilege and list examples of system level privileges. (a) Create a role, my_role. Grant SELECT, INSERT and DELETE privilege to (b) the role, my_role on the student table. Grant this role to the database user, HEMIT. (A) Answer the following questions : Write a short note Hash clusters. (a) What is partitioning? How does partitioning increase manageability? (b) OR (A) Answer the following questions : (a) What are clusters? How are they beneficial? What are the factors that must be considered before indexing ? (b)

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- (B) Answer briefly :
 - (a) Discuss Bitmap indexes.
 - (b) Write a query to create Index-Organized table.

OR

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	(B)) Answer briefly :				
		(a) Explain the concept of index coalescing.				
		(b) Discuss the situations when you need to rebuild an index.				
4.	4. (A) Answer the following questions :					
		(a) Define optimizer and explain various optimizer goals.				
		(b) What are the steps that you need to follow to create the backup of the data, using export utility ?				
	OR					
	(A)	(A) Answer the following questions :				
		(a) What are two types of optimizers ? What are the various ways to set optimizer modes ?				
		(b) Write a short note on cold backup.				
	(B)	B) Answer briefly :				
		(a) What is database tuning ? How can you tune memory usage ?				
		(b) Describe various data structures used for recovering the data.				
		OR				
	(B)	Answer briefly :	6			
		(a) What is EXPLAIN_PLAN ? Why is it used ?				
		(b) Discuss RMAN commands.				
5. Do as directed :						
	Fill in the blanks :					
	(1) Whenever oracle database is installed, a default table space is created or					
	(2)	The process is responsible for inter-instance locking in RAC.				
	(3)	is a logical storage structure that stores the data physically in data files.				
	(4)	A specifies the system resources that are available to a database user.				
	(5)	A is a pointer to the location of data in a table.				
	(6)	The uses database objects and conditions specified in the query, to generate an execution plan.				
	(7)	A is a copy of data stored in a database.				
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True or False :

- (1) LGWR writes the redo log buffer into redo log files on disk.
- (2) You should have multiple copies of an online redo log files.
- (3) There is no SQL statement to drop a datafile.
- (4) Oracle does not allow to modify profiles and drop them.
- (5) A cluster is a group of tables that share common data blocks.
- (6) PINS represents the number of executions of SQL statements.
- (7) Physical backup includes backing up files using operating system commands.

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