	Roll No.	Total No of Page	s: 3
3C7134	3671		
7.7	MCA III - Sem. (Main &		
3(	MCA-304A Advance	2d Database System	
Time: 3	Hours	Maximum Mar Min. Passing Mar	
Instructio Atte	ons to Candidates: mpt all question. Marks of question are	e indicated as the second	
Use	of following supporting material ntioned in form No. 205)	is permitted during examin	n. nation.
1. <u>NIL</u>	and deposition of the second s	2. <u>NIL</u>	
Q.1 Ans	wer the following questions in 1 or 2 sente	ences - [10	×1=101
(a)	Name any two complex types of OODBI	MS.	
(b)	What is Heterogeneous DDBMS?		
(c)	What is Skew in Parallel Database?		
(d)	Write the PL/SQL Block structure.	·	
(e)	What are the advantages of XML Databa	ase?	
B	What is the need of Persistent Programn	ning Language?	
(8)	Describe Local and Global Transactions	s in DDBMS.	
(h)	Name three techniques used for I/O Para	allelism.	
(i)	Write the syntax of declaring a variable	in PL/SQL with an example.	
ر(اک	What is the need of spatial Data Manag	ement?	
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Q.2 Mil	iswer the following questions in upto 50 words - 9	$[5 \times 3 = 15]$			
(a)	Explain Object-Oriented Data Model.				
• (6)	What do you understand by Distributed DBMS? Explain its architecture.				
, (0)	Explain the architecture of Parallel Database.				
<b>(</b>	Differentiate between simple loop and For – Loop of PL/SOL with synta	х.			
•(e)	Explain the need of multimedia Database.	n Marie Na			
Q.3 Ans	swer the following questions in upto 150 words -	5×4=20]			
• (a)	Explain Nested Relations in Object – Relational Database with an examp	ile.			
• (b)	What are the rules for fragmentation of Data in Distributed DBMS? Diff	erentiate			
	between Vertical and Horizontal fragmentation with example.				
(۵)	Differentiate between Interquery and Intraquery Parallelism.				
(d)	What do you understand by cursors? How are				
	difference of the state of the	rent from			
	What do you understand by cursors? How are implicit cursors different explicit cursors?	rent from			
(e)	explicit cursors?	rent from			
	explicit cursors?  Explain XML Data Model with an example.	xent from (2x10=20)			
	explicit cursors?  Explain XML Data Model with an example.				
Q.4 Ans	explicit cursors?  Explain XML Data Model with an example.  swer the following questions in detail -				
Q.4 Ans	explicit cursors?  Explain XML Data Model with an example.  swer the following questions in detail -  Write short notes on following:				
Q.4 Ans	explicit cursors?  Explain XML Data Model with an example.  swer the following questions in detail -  Write short notes on following:  (i) Distributed Query Processing  (ii) 2 - Phase Commit Protocol				
Q.4 Ans (a)	explicit cursors?  Explain XML Data Model with an example.  swer the following questions in detail -  Write short notes on following:  (i) Distributed Query Processing  (ii) 2 - Phase Commit Protocol				
Q.4 Ans (a)	explicit cursors?  Explain XML Data Model with an example.  Issuer the following questions in detail -  Write short notes on following:  (i) Distributed Query Processing  (ii) 2 - Phase Commit Protocol  Explain the following in PL/SQL with example-				
Q.4 Ans (a)	explicit cursors?  Explain XML Data Model with an example.  swer the following questions in detail - [2]  Write short notes on following:  (i) Distributed Query Processing  (ii) 2 - Phase Commit Protocol  Explain the following in PL/SQL with example-  (i) Exceptions  (ii) Triggers				

Q.5	(a)	Write a PL/SQL block that displays the reverse of the number entered by	the
		user	[5]
	(b)	Write short note on Parallel Sort	[5]
	(c)	What do you understand by object oriented language	[5]
		<u>OR</u>	- - - - - - - - - - - - - - - -
Q.5	(3)		[5]
	(b)	- The state of the	[5]
	(c).	Write a PL/SQL Block to display highest and lowest salary of the employee in	ı a
			[5]
		(You are given Employee Database with the following column specifications:	

EmpID	Primary key
EmpName	
Job	Salesman, Analyst, Manager, CTO (values)
Salary	
Date-of-Join	
Deptno	101, 102, 103, 104 (values)

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