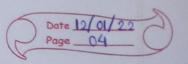
TUTORIAL - 2



UI9CS012

	01905012				
- 1	Value Rivaldade Vasjand stellegal to proceed the Bar				
1.}	Complete the below table:				
9508	Addicable conference and accomme				
	Item	Distribute	d OS	Network	Middleware
		Multiprocessor	Multicomputer	OS	05
	1 Degree of	Very High	High	Low	High
- (3)-ni2	Transparency	0			
	2 Same 0s on all	yes west	Yes	No	No
	nodes				
	3 Number of copies	1	Nipara	Mana	N
	of os		V		
Cost	@ Bosic of	Shared	Messages	Files (1)	model
	Communication				
Anr	5 Resource				
ento	management				
n dough	6 Scalability	No	Moderately	Yes (V)	Vanies
195	(3) Openness	Closed	aosed	Open	open
150	my tordon Laboration	Liaine	The Mary	must Cinn	
2>	What is the ro	le of mi	ddleware	in distributed	system?
2.>	Middleware OS takes the scalability of Network Operating				
	system (NOS) and Transparency of Distributed operation system				
	The role of middleware is				
	1) To make application development easy, by providing				
	common programming abstractions				
				y and the dis	
	of the	underlyin	9 hardware	and operating	system.
	3 By Hiding Low Level programming details				
	communication between				
	1 Handling & Component				
	@ Load Management 3 Directory authentication				
				authorization	

	UI9CSO,12					
	Goals of					
	Middlewan					
	O Provide	3 Resolve				
	Distribution	Heterogenity				
	transparency 2) Talegrate Existing Components					
	into Distributed system					
3.>	Compare and Contrast Distributed and Network operating system					
	N					
(Parameter)	NETWORK US	DISTRIBUTED US				
1 Defination	O Loosely-coupled Os for helerogenous	O Tightly coupled OS for multi processors				
	multi-computers (LAN & WAN)	and homogenous multicomputers.				
3 Objective	@ To provide local services to	@ Manages the hardware				
•	remote dients	resources.				
3 Communica	no 3 File Based, shared folder	3 Mussage Based or Shared				
	Based.	-memory Based				
a Scalabilit	y @ Network as are highly	a Distributed OS is less scalable				
	Scalable. c new machine con be	The process to add new hardware				
	added easily)	is complex.				
6 Fault	(5) Less fault tolerant	5 Very High fault tolerance				
Toloronce	(as compared to DOS)	(2) I I I Paus Vale of Autom				
@ Autonomy	6 Each machine can act on its	(1) It has Poor rak of Autonomy				
Ease of	own thus High Autonomy	1 Implementation is Difficult				
1 Implement	otron (t) Easy to Build and	(b) Implementation is printed				
	Maintain	@ 2 Tier Client Conver Architecture				
1 Architectur	e 8 n Tier client Server Archilectun	1 Distributed as-based rodes				
@ operating	@ Network of have their own					
System	O a Managed of	have the some copy of OC. (B) Global Central distributed				
@ Resource	@ Resources are managed at	monagement is used to				
managemen	every node	monage relourch				
		THE TANK THE				