T-4-1 N f O4:				
Total No. of Questions : 4]		SEAT No.:		
PB299		[Total No. of Pages : 2		
[4	62701-90			
B.E. (Information	on Technology)	(Insem)		
DISTRIBUTED SYSTEMS				
(2019 Pattern) (Semester - VIII) (414450)				
Time: 1 Hour]	cilicater - villi)	[Max. Marks: 30		
Instructions to the candidates:		[Max. Marks . 30		
1) Answer Q.1 or Q.2, Q.3 or Q.4.				
2) Figures to right indicate full m	arks.	03		
3) Neat diagrams must be drawn w		9		
4) Assume suitable data, if necesse	ary.	3,5		
6.1				
	$\sim \sim 0$			
Q1) a) Explain the concept of Hete	erogeneity in Distr	ibuted System. How it deals		
with Heterogeneity?	N. N.	[5]		
V	2 S.	[-1		
b) Enlist the main challenges v	while designing the	Distributed System. Explain		
the role of mobile code and	virtual machine in h	andling the design challenge		
of heterogeneity.	8	[5]		
(2)				
		g from the role of individual		
	ef, the placement	strategies in Peer-to-Peer		
architecture.		[5]		
26.	OR			
3	OK			
Q2) a) Explain what is meant by d	istribution transpa	rency and give examples of		
different types of transpare		[5]		
	•	0,00		
b) Explain in brief, various	system models to	capture the properties and		
design issues of distributed	d systems.	[5]		
White the state of				
	(g in the distributed system?		
Discuss in brief, how do	they communic	ate using communication		

paradigm?

[5]

Q3) a)	What is the concept of middleware? Explain in brief, Message Orie and Content Centric Middleware.	nted [5]
b)	What is CORBA? Give a brief description of the marshalling operation	on in
	CORBA with suitable example.	[5]
	William DOESS A Line of the Control	r <i>e</i> n
c)	What is DCE? Discuss in brief, the various components of DCE.	[5]
	OR OR	
Q4) a)	What is External Data Representation (XDR)? Explain in brief, t	
	alternative approaches to external data representation.	[5]
b)	Discuss the following middleware objects in RMI:	[5]
,		
\	i) Proxy	
	ii) Dispatcher	
	ii) Dispatcher	
c)	What is serialization and descrialization in Java? Discuss in brief, the	euse
	of reflection with respect to Java language.	[5]
	, 6. v	
	Nex x x	
	X X X	
Q		
く		
1		
	No.	
[6270]-9	What is serialization and descriptization in Java? Discuss in brief, the of reflection with respect to Java language. **X**** **X*** **A*** **A***	