

UNIVERSITY OF PETROLEUM AND ENERGY STUDIES

End Semester Examination, December 2017

Program: B. Tech CS Mainframe Technology Semester – VII

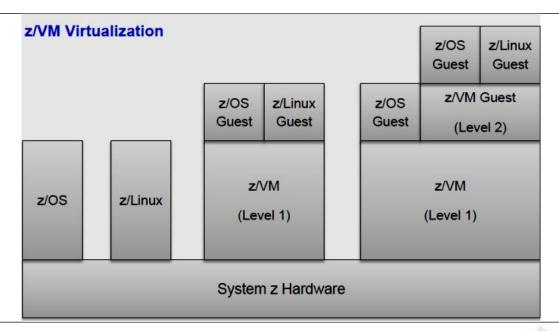
Subject (Course): Mainframe Clustering Max. Marks : 100
Course Code : CSIB354 Duration : 3 Hrs

No. of page/s: 2

Attempt all questions from Section A (each carrying 5 marks); all Questions from Section B (each carrying 10 marks). Attempt both Questions from Section C (carrying 20 marks). Assume any missing data. Draw diagram wherever applicable. Provide appropriate examples.

Section A (attempt all questions – 20 Marks)

Q1.	What it the use of Server Time Protocol?	[5]
	What is the role of XCF Monitoring Services?	[5]
Q2.		[၁]
	Write any five Sysplex commands.	[5]
Q3.		ری
Q4.	What is PR/SM(Processor Resource/System Manager and why it is important?	[5]
	SECTION B (Attempt all Questions – 40 Marks)	_
	Discuss Geographically Dispersed Parallel Sysplex (GDPS) and explain why GDPS is	[10]
Q5.	most important factor for High Availability?	[10]
	Classify the mainframe hardware and discuss I/O connectivity with other networks?	
Q6.		[10]
	Explain the following:	m
Q7.	i. Sysplex Timer	
	ii. LGR	[10]
	iii. Resource Request Queue	/ ` <u>_</u>
	iv. Cache Structure	
	Analyze the block diagram as below and explain?	[10]
Q8.		. ,



	SECTION C (Attempt both Questions – 40 Marks)	1 8
Q9.	When mainframe is in itself a zero downtime system then why Sysplex and parallel sysplex are design for mainframe system? Explain with proper diagram. What is Sysplex Failure Management (SFM)?	[20]
Q1	What is a sysplex/parallel sysplex? Illustrate any four Sysplex policies in detail and	[20]
0	discuss?	

Roll No: -----



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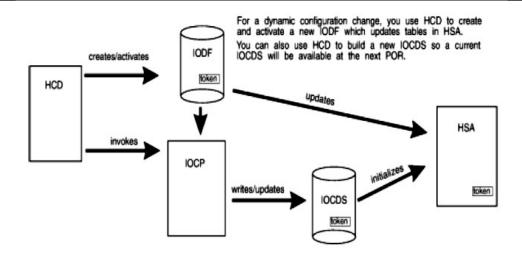
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Section A (attempt all questions – 20 Marks)

Q1.	Discuss any five important commands of Mainframe Sysplex.	[5]
Q2.	What is parallel Sysplex?	[5]
Q3.	Why Server Time Protocol is important?	[5]
Q4.	What is Automatic Restart Manager?	[5]
	SECTION B (Attempt all Questions – 40 Marks)	
	What are different Sysplex Services? Discuss in detail.	[10]
_Q5		
Q6.	Classify the mainframe hardware/software and discuss I/O connectivity in context to sever-to-server communication?	[10]
	Explain the following:	111
Q7.	i. Sysplex Timer	
	ii. Live Guest Relocation	[10]
	iii. SSI	
	iv. Lock Structure	
	Analyze the block diagram as below and explain?	[10]
Q8.		



	SECTION C (Attempt both Questions – 40 Marks)	Щ
Q9.	What is the role of coupling facility in Sysplex? Classify mainframe hardware, I/O connectivity and explain Sysplex Failure Management?	[20]
Q1 0	What are the various factors that can affect the continuous availability? How sysplex/parallel Sysplex can provide Continuous Availability to the business. Discuss in detail with various Sysplex Services.	[20]

At POR, the system uses information in the IOCDS to create tables in $\ensuremath{\mathsf{HSA}}.$