

Name:	 UPES UNIVERSITY WITH A PURPOSE
Enrolment No:	

UNIVERSITY OF PETROLEUM AND ENERGY STUDIES
Online End Semester Examination, May 2021

Course: System Management and Resource Allocation on Mainframe	Semester: VI
Program: B. Tech (CSE) with spl. Mainframe Technology	Time : 03 hrs.
Course Code: CSMT3009	Max. Marks: 100

SECTION A

1. Each Question will carry 5 marks, there are six questions in this section.

S. No.		Marks	CO
Q. 1	i. _____ is a tool through which the hardware configuration can be specified to the OS and the Channel systems. ii. A _____ topology will have a single communication line with a controller at one end and the terminator at the other end and the nodes in between.	5	CO1
Q. 2	i. The Support Element is located inside the same frame that the Central Processor Complex (CPC) is located (integrated Support Element). (True/ False) ii. The HMC's primary function is to provide a console for system administrators and Service personnel to manage server hardware. (True/ False)	5	CO2
Q. 3	i. Validation of the configuration data specified in the IOCDS is carried out by the MVSCP until the resource is accessed. (True/ False). ii. HCD allows dynamic change of the H/W or S/W configuration at SYSPLEX level. (True/ False)	5	CO3
Q. 4	i. RMID identifies: (a) The SYSMOD by which the element is introduced into the system. (b) The last SYSMOD that is applied to substitute the element. (c) Identifies the SYSMOD that have modified the element since it was last replaced. (d) Any of the above ii. When software product is sent for installation, usually it will consist of a set of modules which are: (a) Load Modules (b) Source Modules (c) Macro (d) Job Stream	5	CO4
Q. 5	i. Load Module represents: (a) Executable Code	5	CO5

	(b) Object Code (c) Source Code (d) Any of the above ii. Distribution libraries are built during (a) RECEIVE process (b) APPLY process (c) RESTORE Process (d) ACCEPT Process		
Q. 6	i. HCD uses a repository called (a) MVSCP (b) IODF (c) IOCP (d) IOCDS ii. WLM is not used in? (a) Static PAV (b) Dynamic PAV (c) Hyper PAV (d) All of the above	5	CO1
SECTION B			
1. Each question will carry 10 marks, there are five questions in this section. 2. Instruction: Write short / brief notes.			
Q. 7	i. Compare Static, dynamic and Hyper PAV. ii. Differentiate Asynchronous transfer mode vs Wavelength division multiplexing.	10	CO1
Q. 8	Explain the functioning of following: i. HMC connectivity using modem ii. SSL with Proxy Server connectivity	10	CO2
Q. 9	Comment, RAS is a key feature of Mainframe.	10	CO2
Q. 10	Explain the use of function SYSMODs with suitable example. (OR) After the SYSMODs have been RECEIVED, which command has to use for installing them into appropriate target libraries, explain the working of that command also.	10	CO4
Q. 11	Describe the functioning of following commands: i. APPLY CHECK Command ii. RESTORE Command	10	CO5
SECTION-C			
1. Each Question carries 20 Marks. 2. Instruction: Write long answer.			
Q 12	i. Compare Cold start, Quick start, and Warm start. ii. Illustrate how Dynamic channel path management helps WLM. (OR) iii. Explain HMC Performance tests that can be done at different levels and their uses. iv. Compare different versions of the Open Systems Adapters with suitable example.	20	CO3