


Name: Enrolment No:	 UPES <small>UNIVERSITY WITH A PURPOSE</small>	
UNIVERSITY OF PETROLEUM AND ENERGY STUDIES Online End Semester Examination, May 2021 Course: Resource Allocation on Mainframe Semester: VIII Programme: B.Tech (CSE-Mainframe Technology) Time: 03 hrs. Course Code: CSMT 4005P Max. Marks: 100		
SECTION A 1. Each Question will carry 5 Marks. 2. Instruction: Complete the statement / Select the correct answer(s).		
S. No.		CO
Q 1	Which of the following statement is true? a) Numeric aperture can be used to identify if light loss could happen due to bends in the fiber. b) Control units can not be attached to the channel subsystem by more than one channel path. c) The channel subsystem can not have more than one type of channel path. d) FICON does not support full-duplex data transfer.	CO1
Q 2	Which of the following task is performed by Hardware Configuration Definition (HCD)? a) Define new configuration data b) LDAP interfacing capability c) Compare active I/O configuration to a defined I/O configuration in an IODF d) All of the mentioned	CO2
Q 3	Which of the following is not a valid type of Parallel Access Volumes (PAV)? a) Sysplex PAV b) Dynamic PAV c) Static PAV d) Hyper PAV	CO2
Q 4	Which of the following is not a valid phase in the FFDC (First Failure Data Capture) data collection process? a) Data cleanup b) Data notification c) Data generation d) Data Store	CO3
Q 5	The library “SYS1.SCBDMENU” represents _____. a) HCD Table Library b) HCD Panel Library c) HCD Message Library d) None of the mentioned	CO4

Q 6	Which of the following mode is invalid for accessing the channel paths? a) Dedicated mode b) Candidate mode c) Reconfigurable mode d) Spanned mode	CO5
SECTION B		
1. Each question will carry 10 marks		
2. Instruction: Write short/brief notes		
Q 7	State the role of ESCON CTC communications in the Mainframe environment. Differentiate between ESCON point-to-point and switched point-to-point configurations.	CO1
Q 8	Write a short note on the following: Unit information module, Unit control block, Eligible device table, and the I/O configuration program.	CO2
Q 9	Illustrate the Problem Analysis Framework with suitable example.	CO3
Q 10	Define the significance of Open Systems Adapter in Mainframe systems. Differentiate among the versions of the Open Systems Adapters.	CO4
Q 11	Explain the HMC performance tests performed in the operating system layer, network system layer, and the HMC services layer.	CO4
SECTION-C		
1. Each Question carries 20 Marks.		
2. Instruction: Write long answer.		
Q 12	Elaborate the steps involved in migrating the IOCP, MVSCP, or HCPRIO input data sets to an IODF using the HCD dialog. Also, write a sample JCL program to build a production IODF from work IODF by invoking the batch utility. OR Describe the steps involved in process of Initial Program Loading along with loading of the MVS nucleus in a Mainframe system. Differentiate among cold start, quick start, and the warm start types of IPL.	CO5