## UNIVERSITY OF PETROLEUM AND ENERGY STUDIES End Semester Examination, April/May 2018

Course: Fundamentals of Mainframe Skills/CSMT1001 Semester: II

Program: B.Tech. CSE+MT

Time: 03 hrs. Max. Marks: 100

Instructions: Students are supposed to assume any missing data and has to give examples/draw diagrams wherever applicable

	SECTION A [20 Marks]							
S. No.		Marks	CO CO1					
Q1	With a neat block diagram of Mainframe, describe its hardware components.	4						
Q2	Describe the advantages of Partitioned Datasets in z/OS.							
Q3	Why you use Job Control Language in z/OS?							
Q4	Illustrate the role of SCLM in Mainframe Application Development.  4							
Q5	Discuss z/OS Unix file system in short.	4	CO5					
	SECTION B [40 Marks]							
Q6	What is a System Complex in Mainframe? Discuss the need of Sysplex/Parallel Sysplex with proper diagram.	10	CO1+ CO2					
Q7	Discuss the most required skills for mainframe application development with proper explanation.	10	CO4					
Q8	Explain the Job Entry sub System process with diagram and types of datasets in z/OS.	10	CO3					
Q9	Compare between rlogin/Telnet and ISPF connectivity features of Mainframe for Unix System Services.	10	CO5					
	SECTION-C [40 Marks]							
	Note* Q10 is compulsory and attempt any one question from Q11 and Q12		T					
Q10	Explain the following:  i. z/OS Datasets  ii. Fixed Blocked  iii. Variable Blocked  iv. 3270 Emulator	20	CO2,C O3,CO 4,CO5					
Q11	Explain the evolving architecture of the Mainframe and its various operating systems.	20	CO1, CO5					
	OR							
Q12	Discuss:  i. SCLM  ii. z/TPF  iii. JCL  iv. Dataset	20	CO1,C O2,CO 3,CO4, CO5					

V.	HFS		