

Name:	
Enrolment No:	

UNIVERSITY OF PETROLEUM AND ENERGY STUDIES
End Semester Examination, December 2019

Course: Mainframe transaction management, CICS (CSEG 439) **Semester: VII**

Programme: B.Tech (CSE with specialization in Mainframe Technology)

Time: 03 hrs.

Max. Marks: 100

Instructions: All sections are compulsory.

SECTION A

S. No.		Marks	CO
Q 1	Define the term “Customer Information Control System (CICS)”.	4	CO1
Q 2	Differentiate between temporary data queues and transient data queues.	4	CO1
Q 3	Differentiate between EXCI and XCTL calls used in program-to-program communication.	4	CO2
Q 4	Discuss the importance of COMMAREA in CICS environment.	4	CO3
Q 5	Describe the significance of External Presentation Interface (EPI) in application development.	4	CO4

SECTION B

Q 6	Describe various components involved in transaction flow during transaction execution.	10	CO1
Q 7	State the advantages of three-tier application design. Discuss the types of client-server models in which CICS can involve.	10	CO2
Q 8	Elaborate event processing architecture along with its components.	10	CO5
Q 9	Differentiate among sysplex, CICS region and CICSplex with suitable example. Elaborate the benefits of CICSplex system manager. <p style="text-align: center;">OR</p> Discuss the significance of following CICS supplied transaction CEMT, CESN, CMAC, CEDF and CDBM. Write the commands used to update a program copy from TSO environment to CICS environment, to shut down the CICS region and to kill CICS hanging task.	10	CO3

SECTION-C

Q 10	Describe the role of message handlers and phases involved in the operation of a pipeline. Explain the pipeline operations when:	20	CO4
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	<ul style="list-style-type: none"> i. CICS is in the role of service provider ii. CICS is in the role of service requester 		
Q 11	<p>Create a symbolic map for product inventory, where user will enter the product code, product name and its quantity. Write a COBOL program to fetch these values in COBOL variables from map. Prepare a JCL program for compilation of this COBOL program.</p> <p style="text-align: center;">OR</p> <p>Summarize the differences between physical map and symbolic map. Develop a COBOL program, having CICS statements, to receive a text message from CICS terminal and to send a text message from COBOL program to CICS terminal. Write the steps involved in binding this program with user defined CICS transaction.</p>	20	CO5