

Name:	
Enrolment No:	

UNIVERSITY OF PETROLEUM AND ENERGY STUDIES
End Semester Examination, December 2018

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.	Question	Marks	CO
Q 1	Define the significance of temporary storage in CICS.	4	CO1
Q 2	Describe the rules to define transaction name in CICS.	4	CO3
Q 3	State the importance of SOAP message body.	4	CO4
Q 4	Write the advantages of External Presentation Interface (EPI).	4	CO4
Q 5	Memorize and explain the utility program used for password expiry management in security of CICS web support.	4	CO3

SECTION B

Q 6	Describe CICS management services in detail.	10	CO1
Q 7	Explain the importance of CICSplex System Manager in mainframe environment with its benefits.	10	CO3
Q 8	Elaborate characteristics and strengths of CICS.	10	CO2
Q 9	Differentiate among LINK, EXCI, ECI and XCTL commands with their syntax. OR Write and explain EXEC CICS commands for the following: a) To send text from COBOL program to CICS terminal b) To place cursor	10	CO5

SECTION-C

Q 10	Describe the term “web service”. Demonstrate web services architecture with its components and operations.	20	CO4
Q 11	Prepare a map program for a calculator, where user will enter two numbers in first and second field and multiplication of these numbers will be displayed in third field. Write a COBOL program with integrating this map to perform desired multiplication operation. Also, write CICS transaction commands used to define, install and execute above created programs. OR Justify the requirement of three-tier application design. Discuss the following client-server communication models: a) Remote data access model	20	CO2

	b) Database server model c) Application server model		
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SECTION A			
S. No.		Marks	CO
Q 1	Define the significance of dump files in CICS.	4	CO1
Q 2	Write the commands used to sign-on and sign-off the CICS system.	4	CO3
Q 3	Express the importance of SOAP message body in SOAP protocol.	4	CO4
Q 4	Identify the importance of External Call Interface (ECI).	4	CO3
Q 5	Discuss command security and surrogate security measures implemented in CICS.	4	CO4
SECTION B			
Q 6	Describe the methods through which client communicate with CICS server.	10	CO1
Q 7	Elaborate the techniques used to define resources to CICS.	10	CO3
Q 8	Demonstrate the COBOL program preparation process having EXEC SQL command with suitable diagram.	10	CO2
Q 9	Differentiate between intra-partition transient data and extra-partition transient data with diagram. OR Illustrate CICS transaction gateway with its diagram and components.	10	CO5
SECTION-C			
Q 10	“Accessing a resource on the server is the aim of request and response is made by a server to a client”. Describe the elements of correctly composed HTTP request and HTTP response.	20	CO4
Q 11	Explain the term “Event processing” with respect to CICS. Illustrate event processing architecture with its components. OR Prepare a COBOL program to send text to CICS terminal. Write JCL program to compile this COBOL program. Also, express the CICS transaction commands to define, install and execute the program in CICS environment.	20	CO5