Name:

Enrolment No:



UNIVERSITY OF PETROLEUM AND ENERGY STUDIES

End Semester Examination, December 2023

Course: B.Tech (CSE-H+NH)-All Semester: VII

Program: Banking & Insurance Technology - Application Architecture, Database & Structures

Time: 03 hrs.

Course Code: CSBI4011P Max. Marks: 100

Instructions:

SECTION A

(**5Qx4M=20Marks**)

Note: All 5 questions are compulsory. Each question of Section A carries 4 marks.

S. No.		Marks	CO
Q 1	Discuss the components and characteristics of DBMS.	4	CO1
Q 2	Describe importance of data archiving and backup.	4	CO1
Q 3	Explain data protection law in India.	4	CO1
Q 4	Discuss the challenges of a Core banking Solution and how it can be resolved?	4	CO2
Q 5	Write down data protection principles.	4	CO4

SECTION B

(4Qx10M = 40 Marks)

Note: Answer all the questions. Each question of section B carries 10 marks.

Q 6	Explain the importance of data modelling in core banking solutions. How it is	F 2 10	GO2
Q 0	useful to expand the banking business?	7+3=10	CO3
Q 7	Explain architecture of Core banking Enterprise System view and its components with diagram.	10	CO2
Q 8	List the Master Data Management (MDM) and its different types.	10	CO5
Q 9	Illustrate key technologies involved in storing big data. What is the legal requirements of data storage?		CO3
	OR	10	
	Define Data Model and its usage. List down the types of data models.		CO4
	SECTION-C (2Qx20M=40 Marks)		I
Q 10	Describe IBM SPSS predictive analytics functionality and components with		CO5

_	Draw and describe the Core Banking Solution with various cormake the system complete and effective. (20)	nponents that	
	OR Discuss and differentiate: (5x4M)		
	 i) Real-time database Systems performance E Web-Database Systems performance Evaluation ii) ER Model and Data Model iii) Meta data and Reference data iv) Structured and Unstructured Data 		CO4, CO3, CO5