Name:

Enrolment No:

UPES

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

SECTION A

Course: Banking Database & Structure Program: B.Tech CSE+BFSI Course Code: CSIB 332

Semester: VI Time: 03 hrs. Max. Marks: 100

Instructions:

S. No.		Marks	CO
Q 1	Discuss Database System Environment. List down some industries which are using DBMS.	4	COI
Q 2	Differentiate between Reference Data and Meta Data with example.	4	CO3
Q 3	Define Data Model and its usage. List down the types of data models.	4	COI
Q 4	Differentiate between Data Warehouse and Big Data with example.	4	CO3
Q 5	Write down data protection principles.	4	CO4
	SECTION B		
Q 6	Discuss key technologies involved in storing big data. Illustrate legal requirements of data storage.	5+5=10	CO4
Q 7	Analyze and explain architecture of Core banking Enterprise System view and its components with diagram.	10	CO2
Q 8	Recognize the importance of data archiving and backup. Illustrate data protection law in India.	10	CO4
Q 9	Draw and explain IBM Info Sphere MDM functionality and architecture. OR Analyze IBM SPSS. Describe its application in different public and private sectors.	10	CO 3

10	 (a) Define batch processing. Explain Info Sphere MDM Custom Domain Hub J2SE batch Processor framework and architecture. (b) Write down short notes on data storage techniques. 							(5+10) (5)		
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Course: Banking Database & Structure Program: B.Tech CSE+BFSI Course Code: CSIB 332

Semester: VI Time: 03 hrs. Max. Marks: 100

Instructions:

SECTION A

S. No.		Marks	CO		
Q 1	Differentiate between ER Model and Data Model.	4	CO1		
Q 2	Define DBMS and write down the components of it.	4	CO4		
Q 3	Define metadata. In banking system which type of metadata is useful?	4	CO3		
Q 4	List down Magnetic Storage and Semiconductor Memories.	4	CO3		
Q 5	Differentiate between Supervised and Unsupervised Learning with example.	4 CO			
	SECTION B				
Q 6	Recognize the importance of data modelling in core banking solutions.	10	CO1		
Q 7	Write down challenges of Core Banking Solution. Draw and explain Customer Data Model.	3+7	CO2		
Q 8	Discuss BIG Data. Illustrate and explain BIG Data key technologies.	2+8	CO3		
Q 9	Explain key technologies involved in storing big data. What is legal requirements of data storage? OR Illustrate and outline InfoSphere MDM with distinct technologies.	10	CO4		
	<u>SECTION-C</u>				
Q 10	Analyze and explain IBM SPSS predictive analytics functionality and components with diagram.	20	CO5		
Q 11	Draw and describe the Core Banking Solution with various components that make the system complete and effective.	20			

Discuss ar i)	OR nd differentiate with example : Real-time database Systems performance Evaluation and Web-Database	
ii) iii) iv)	Systems performance Evaluation Data Warehouse and Big Data Meta data and Reference data Structured and Unstructured Data	CO4