

## **Enrolment No:**



Semester: VI

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

**Course: Banking Database & Structures** 

Program: B.Tech CSE+BFSI

Time: 03 hrs. Max. Marks: 100

#### **Instructions:**

## **SECTION A**

## 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 Master Data Management (MDM) and its different types.	4	CO1				
Q 3	Define Data Model and its usage. List down the types of data models.	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				
CECTION D							

#### **SECTION B**

# 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 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	Explain IBM SPSS predictive analytics functionality and components.	10	CO5
Q 9	Explain key technologies involved in storing big data. What is legal requirements of data storage?		CO 3
	OR		
	Describe importance of data archiving and backup. Explain data protection law in India.	10	
			CO4

	Note: Answer tl	he questions	SECTIO		ion C carrie	s 20 marks		
Q 10	(a) Define batch proces Sphere MDM Cust architecture. (b) Write down short  Explain Market basks and find the most free that Min_Support=4  Transaction  1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	ressing. How it stom Domain l notes on data et Analysis. In equent data iter	t is useful in Hub J2SE to retention.  OR  upplement A	n BFSI dom patch Proces	nain? Explain ssor framewo (5+ (5 rithm for giv	Info ork and 10)	15+5=20	CO1 CO3 CO5
Q 11	Initial weights w1=.15, w2=.20, w3=.25, w4=.30, w5=.40, w6=.45, w7=.50, w8=.55. The bias values are b1=.35 and b2=.60. Learning rate is .50. The outputs are o1=.01 and o2=.99. How many iterations are required to achieve the expected output. Try and solve it for two iterations.						20	CO5