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

Program: B.Tech. (CSE) with specialization Mainframe Technology   **Semester:** VI
Course: Mainframe DBMS   **Course Code:** CSIB353
Time: 03 hrs.   **Max. Marks: 100**
Instructions: Follow the instructions as directed.

SECTION A

S. No.		Marks	CO
Q.1	Classify the different table spaces uses by DB2. Explain the role of these table spaces.	(5M)	CO1
Q.2	Exemplify the two major downsides to using DBMSs.	(5M)	CO2
Q.3	Show the working of cursor for loop with suitable example.	(5M)	CO2
Q.4	Discuss the use of DCLGEN with suitable example.	(5M)	CO3

SECTION B

Q.5	i. Analyze working of SQLCA for programmer. Explain with the help of example. (OR) ii. Explain the working of DB2 QMF.	(10M)	CO3
Q.6	i. Explain the use of REORG and RUNSTATS utilities with suitable example. ii. Illustrate the role of Program-Data independence in respect of database design.	(5M*2 = 10M)	CO5 CO2
Q.7	Justify the statement "IMS is designed to make the best use of the features of the z/OS operating system".	(10M)	CO1
Q. 8	i. Distinguish importance of storage administration and database administration in respect of z/OS. ii. Explain the role of Optimizer in respect of a query execution.	(5M*2 = 10M)	CO4

SECTION-C

Q. 9	i. Demonstrate preparation process for an application program using a neat diagram.	(8M)	CO3
	iii. Prepare an application program for fetching the data of an employee who is getting maximum salary in the department from a table named employee inside the program and after adding Rs. 1000 to his salary update the same in table. (OR) Prepare a query to find the name of all the employees whose name is staring with character 'A' and ending with character 'a'.	(12M)	CO3

Q.10	Compare the following:
	  i. Multi-Level security and Label-Based access control
	  ii. Circular logging and linear logging
	  iii. Static and Dynamic SQL
	  iv. Left outer join and Right outer join
		(5M*4=20M)	CO4
			CO1
			CO2
			CO2

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Name of Examination (Please tick, symbol is given)	:	MID		END	⊟	SUPPLE	
Name of the School (Please tick, symbol is given)	:	SOE		SOCS	⊟	SOP	
Programme	:	B.Tech. (CSE) with specialization Mainframe Technology					
Semester	:	VI					
Name of the Course	:	Mainframe DBMS					
Course Code	:	CSIB353					
Name of Question Paper Setter	:	Mr. Neeraj Chugh					
Employee Code	:	40000453					
Mobile & Extension	:	9897263888/1734					

Note: Please mention additional Stationery to be provided, during examination such as Table/Graph Sheet etc. else mention "NOT APPLICABLE":

FOR SRE DEPARTMENT

Date of Examination	:	
Time of Examination	:	
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Note: - Pl. start your question paper from next page

Model Question Paper (Blank) is on next page

Name: Enrolment No:	UPES