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MES GARWARE COLLEGE OF COMMERCE (AUTONOMOUS)

BBA-CA Programme (Autonomous)

Under the Guidelines of NEP 2020 and AICT

AY 2024-25

FY BBA(CA) – Semester – II Course Marks: 50 Subject: Relational Database Management System Code: Credits: 2 23BA2-A022 **Course Objectives:** To understand concept of RDBMS & use in business • Enables students to understand relational database concepts and transaction management • concepts in database system. To understand meaning and concept of Lock based and timestamp based protocol, • Deadlock handling and Recovery of database **Course Outcome:** After completing the course, the student shall be able to CO1: Ability to understand concepts of Relational Database management system and its implementation CO2: Knowledge of Transaction based recovery system of database

CO3: understand concepts like lock-based recovery system, timestamp-based protocol and Deadlock handling.

Unit	Unit Title	Contents	No. of Lectures + CCE
Ι	Introduction To RDBMS	 Introduction To RDBMS Introduction to popular RDBMS product and their feature Difference Between DBMS and RDBMS Relationship among application programs and RDBMS 	6
II	Transaction Management	 Transaction Management Transaction Concept Transaction Properties Transaction States Concurrent Execution Serializability 	12
III	Concurrency Control & Recovery System	 Concurrency Control & Recovery System Lock Based Protocol - Lock, Granting Lock, Two-Phase locking protocol, Timestamp Based Protocol Deadlock Handling - Deadlock Prevention, Deadlock avoidance, Deadlock Detection, Deadlock Recovery Failure Classification Recovery & Atomicity Log-based recovery, checkpoints. Recovery with concurrent transaction - Transaction Rollback, Restart recovery 	12
Teach	ing lectures	1	25
Conti	nuous Evaluation (CCE))	5
Total	No of Lectures		30

Unit	Unit Title	Suggestive teaching	Project	Outcome expected	Weight
		methodology	(If any)	Conceptual understanding	age of
				Knowledge/Skills/Attributes etc.	Marks
					(%)

	Introduction			1. Understanding of	
Ι	To RDBMS	Lecture - Demonstration	practical	various RDBMS	20%
				products()	
		and Practical		2. Use of relational database	
		Implementation in		3. To get knowledge	
		Laboratory		of Front End and	
				Backend	
	Transaction	Lecture - Demonstration		1. Understanding use of	400/
II	Management	and case study based		transaction and effect	40%
	0	learning		on database 2. Application of	
				properties (Case	
				solving)	
				3. Understanding of	
				various states such as	
				active, partially	
				committed, Failed, aborted, committed	
				4. understand concept of	
				reduction in waiting	
				time	
				5. Conflict Serializability	
				and View	
		Lester Demonstration		Serializability	
		Lecture - Demonstration and case study based		1. To understand concept of shared and exclusive	40%
III	Comerciane	learning		lock	
	Concurrenc y Control &	8		2. To learn how to	
	Recovery			prevent deadlock	
	System			situation	
				3. Understand what	
				deadlock is and how it can occur when giving	
				mutually exclusive	
				access to multiple	
				resources	
				4. To learn concepts	
				related to hardware	
				failures 5. Data recovery with	
				different techniques	
				6. Restoring of data which	
				is changed by mistake	

Suggested Books:

Sr. No.	Name of Book	Author	Publication	Place
1	Database Management System	Bipin Desai	Galgotia Publications	New Delhi
2	SQL/PLSQL the programming language of oracle	Ivan Bayross	BPB Publications	New Delhi
3	An Introduction to Database Systems	C. J.Date, A.Kannan, S.Swamynathan	Pearson Publications	North America
4	Database System Concepts	Silberschatz, Korth, Sudershan	McGraw-Hill	New York

Evaluation Method:

Unit	Evaluation Method		Project/Practical		
		Formative Assessment		Summative Assessment	(If any)
		CCE I	CCE II	SEMESTER	
		(20)	(20)	(60)	
1	Assignment and lab course work	MCQ	Assignment		Practical in Computer
2	Test and case study	MCQ	Assignment		Laboratory Practical in Computer Laboratory
3	Test, and case study.	MCQ	Assignment		Practical in Computer Laboratory

FY BBA(CA) – Semester – II

Course Code: 23BA2-C032	Subject: PL-SQL	Marks: 50 Credits: 2	
Course Object	tives:		
• Enable	s students to understand PL-SQL Concept and block Diagram		
• Enables	s student to write PL/SQL programs that use: procedure, function, t	trigger, cursor	
		00	
and pac	kage		
and pac	kage		
and pac			
Course Outco			
Course Outco	me:		

Unit	Unit Title	Contents	No. of Lectures + CCE
I	Basics of PL-SQL	 Basics of PL-SQL Overview of PL-SQL Data Types in PL-SQL, PL-SQL Block Diagram Loops in PL-SQL Exception Handling 	10
Π	PL-SQL Programming	 PL-SQL Programming Functions, Procedures Cursor Trigger 	20
Teach	ing lectures		25
Conti	5		
Total	30		

Unit	Unit Title	Suggestive teaching methodology	Project (If any)	Outcome expected Conceptual understanding Knowledge/Skills/Attributes etc.	Weight age of Marks (%)
Ι	Basics of PL-SQL	Lecture - Demonstration and Practical Implementation in Laboratory	practical	Understanding of various programming aspects Learning of different exceptions Writing of compact code (Small program writing)	40%

II	PL-SQL Program ming	Lecture - Demonstration and Practical Implementation in Laboratory	practical	1. Understanding of exact data retrieval60%2. Writing of triggers and packages(Small application using all contents)60%
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Suggested Books:

Sr. No.	Name of Book	Author		Public	cation	Place	
1	Database Management System	Bipin Desai		Galgotia Publications		New Delhi	_
2	SQL/PLSQL the programming language of oracle	Ivan Bayross		BPB Publications		New Delhi	
3	An Introduction to Database Systems	C. J.Date, A.Kannan, S.Swamynathan		Pearson Publications		North America	
4	Database System Concepts	Silberschatz, Korth, Sudershan		McGra	w-Hill	New York	
Unit	Evaluation Method	L	Marks (100)		ł	Project/Practical	
		Formative	Ass	essment		mative ssment	(If any)
		CCE I (10)		CCE II (10)		ESTER 30)	
1	Assignment and lab course wo		A	ssignment		/	Practical in Computer Laboratory
2	Assignment and Lab Course work	MCQ	As	ssignment			Practical in Computer Laboratory

Evaluation Method:

FY BBA(CA) – Semester – II

Course Code: 23BA2-F072

Subject: Business Mathematics

Course Objectives:

- To develop the basic understanding of numbers & their operations.
- To understand the concept of Matrix.

Course Outcome:

After completing the course, the student shall be able to

CO1: Understand numbers & their operations with ratio and proportion. **CO2:** Understand the Matrix in business.

Unit	Unit Title	Contents	No. of Lectures	
I Introduction to Mathematics		1.1 Number System1.2 Ratio.1.3 Proportion.1.4 Percentage	12	
II	Matrix	3.1 Definition and Types of Matrices.3.2 Algebra of Matrices, Inverse of Matrix.	13	
Total	No. of lectures	for teaching	25	
Total	05			
Total	Total No of Lectures			

U n it	Unit Title	Suggesti ve teachin	oje ct	Outcome expecte Conceptual unde Knowledge/Skill	erstanding	Weig htag e of Mar
		g	(If	etc.		Mar
				СО	LO	

		method ology	an y)			ks (%)
Ι	Introd uction to Mathe matics	Problem Solving.	NA	Understand numbers & their operations with ratio and proportion.	Self- directed Learning, Problem Solving	30%
II	Matrix	Peer Learnin g, Quiz & Problem Solving.	NA	Understand the Matrices in business.	Reflective Thinking, Scientific Reasoning, Problem Solving	40%

Suggested Readings:

Sr. No.	Name of Book	Author	Publication	Edition	Place
1	Business Mathematics: Theory & Applications	J. S. Sharma	S. Chand	Second	New Delhi
2	Business Mathematics	Dr. A. Dikshit	Himalaya	First	New Delhi

Unit	Evaluation Method		Marks (50)	Project/
		Formative A	Assessment	Summative Assessment	Practical
		CCE I (10)	CCE II (10)	SEMESTER (30)	
1	Introduction to Statistics	Assignment +	MCQ +		NA
2	Matrix				

Suggested Web/E-Learning Resources:

Sr	Topic of the	Lectures (Available	Fil	Journals/Articles/Case
•	lectures	on You	ms	Studies
Ν		tube/Swayam/MOOC		
0.		S etc)		
1	Introduction to	https://youtube.com/c/I		College e-library:
	mathematics	<u>caiOrgtube</u>		https://sites.google.com/mes
2	Matrix			pune.in/mesgarwarecollegeo
				fcommercelib/f-y-
				<u>bbaca?authuser=0</u>

		FYBBA CA- Semester- II					
Course Code: 23BA2- G042	Subject: Pers	onality Development Marks: 50 Credits: 2					
Course O)bjectives:						
 To develop reasonable knowledge about Personality Development. To build self-confidence and goal setting among the students. Course Outcome: After completing the course, the student shall be able to							
CO1: Ur	derstand qualitie	es required for a pleasing personality					
CO2: Bu	iild self-confiden	ce and set their goals.					
Unit	Unit Title	Contents	No of Lectures				
Ι	Introduction to Personality Developme nt	13					

		• Manners & Etiquettes.	
Π	Goal Setting and Self Developme nt	 Self-Assessment-Finding Own Personality type (Conduct any Personality Test like Myers Briggs' 16 Categories of Personalities. Goal Setting- SWOT Analysis, Interpersonal skills, understanding people/Social behavior Team Building- Be a team player, adapt in different cultural and work styles, Maintain professional and social relationships Assertiveness, Decision making skills, Leadership & Qualities of Successful Leader. 	12

Unit	Unit Title Teaching methodol		eaching ethodology			Outcome expected- Concep Knowledge/Skills/Attribute			-	05 ho
					Ċ	Co	urse	Lea	arning	
						Ou	tcome(CO)	Ou	tcome	
								(L	0)	
1	Introduction to Personality Development	Lecture, Gro Discussion, Videos, Case	-		I	Fui Per	sonality	me	study the natu aning of perso understand va	
		studies on Personality development	t		1	De	velopment		ecting persona elopment of a	
2	Goal Setting and Self Development	l Lectures, Gro Activities Presentations Videos on go setting & sel development	s. pal f			nee Coi Sel	derstand the ed of Global mpetence and f velopment	Glo To cha cor enc tha	understand the obal Competer decipher the tracteristics of npetent individe courage studen t characteristic mselves.	
No of	Lectures for Evalu	ation								
Unit	Evaluation Method		Marks (50) Formative Assessment				Summative Assessment		Project/ Practical(If an	30 ho
			CCE	E I(10)	CCE II (10)	[SEMESTER(3	30)		
[Introduction to P Development	duction to Personality lopment		Assignment Internal Semest		rnal Semester End			NA	
II	Goal setting & Self Development]				NA			

Sr No	Name of the Book	Author	Publication	Edition	Place
1	Personality development.	Swami Vivekananda	Adhyaksha Advaita Ashram	2009	New Delhi
2	Personality Development and Communication skills.	C Rajya Lakshmi Kalyani, D S Vittal, AnithaRaju	Himalaya Publishing House.	2006	New Delhi
3	Effective Life Management.	Swami Amartyananda	Advaita Ashrama	2012	New Delhi
4	Personality Development and Soft Skills.	BarunMitra	Oxford University Press	2013	New Delhi
5	Soft Skills- Personality Development for Life Success.	Prashant Sharma	BPB Publication	2017	New Delhi
6	Theories of Personality 4th Edition.	Hall CS, Lindsey G and Campbell J B	Wiley	2002	New Delhi

Suggested Readings:

SR	Films		Journals/Articles/Case	studies	
		You S et	tube/Swayam/MOOC c)		
1	Introduction to Personality Development	Cou Dev Pers (npt Free Pers	onality Development - rse (swayam2.ac.in) eloping Soft Skills and onality - Course el.ac.in) e Online Course: onality Development <u>n Swayam Class</u>		Personality Development Articles (managementstudygui de.com)Personal Development Articles (essentiallifeskills.net)Personal Development Articles (Leveryday Power
2	Goal Setting and Self Developmen t	Cou Dev Pers (npt Free Pers	onality Development - rse (swayam2.ac.in) eloping Soft Skills and onality - Course el.ac.in) e Online Course: onality Development o Swayam Class		Personality Development Articles (managementstudygui de.com) Personal Development Articles (essentiallifeskills.net)) Personal Development Articles (essentiallifeskills.net)) Personal Development Articles [Everyday Power]

Suggested Web/E-learning Resources:

- Q1. Write a program in C to find the square of any number using the function. [15]
- Q2. Create a structure employee (id, name, salary). Accept details of n employees and write a menu driven program to perform the following operations.[25]
- a) Search employee by id
- b) Display all employees

Q3. Consider the following entities and their relationships.	[40]

Client (client_no, client_name, address, birthdate) Policy_info (policy_no, desc, maturity_amt, prem_amt, date)

Relation between Client and Policy_info is Many to Many

Constraint: Primary key, prem_amt and maturity_amt should be > 0.

Create a RDB in 3NF and write PL/SQL blocks in Oracle for the following:

- 1) Write a function which will return total maturity amount of policies of a particular client.
- 2) Write a cursor which will display policy date wise client details.

Q4. Viva / Oral	[10]
Q5. Lab Book	[10]

Q1. Write a program in C to swap two numbers using function. [15]

Q-2 Create a structure Student (id, name, marks). Accept details of n students and write a menu driven program to perform the following operations [25]

a) Search student by id

b) Display all students

Q3. Consider the following Item_Supplier database

[40]

Item (itemno, itemname)

Supplier (supplier_No , supplier_name, address, city)

Relationship between Item and Supplier is many-to-many with descriptive attributerate and quantity

Constraints: itemno ,supplier_No primary key

Create a RDB in 3NF and write PL/SQL blocks in Oracle for the following:

- 1) Write function to print the total number of suppliers of a particular item
- 2) Write a trigger which will fire before insert or update on rate and quantity less than or equal to zero. (Raise user defined exception and give appropriate message)

Q4. Viva / Oral

Q5. Lab Book

[10]

- Q1. Write a program in C to check a given number is even or odd using the function.
- Q2. Create a structure employee (eno, ename, salary). Accept details of n employees and write a menu driven program to perform the following operations options. [25]

[15]

- 1. Display all employees having salary > 5000
- 2. Display all employees
- Q3. Consider the following entities and their relationship. [40]

Newspaper (name, language, publisher, cost)

Cities (pincode, city, state)

Relationship between Newspaper and Cities is many-to-many with descriptiveattribute daily required

Constraints: name and pincode primary key

Create a RDB in 3NF and write PL/SQL blocks in Oracle for the following:

- 1) Write a trigger which will fire before insert on the cities table which check that the pincode must be of 6 digit. (Raise user defined exception and give appropriate message).
- 2) Write a procedure to calculate city wise total cost of each newspaper

Q4. Viva / Oral	[10]
Q5. Lab Book	[10]

Q1. Write a C program to Calculate the factorial of a number using recursion. [15]

Q2. Create a structure Book (Bno, Bname, Price). Accept details of n Books and write a menu
driven program to perform the following operations options.[25]1. Display all Books having price > 5002. Display Book having maximum price

Q3 Consider the following entities and their relationships. [40]

Client (client_no, client_name, address, birthdate) Policy_info (policy_no, desc, maturity_amt, prem_amt, date)

Relation between Client and Policy_info is Many to Many

Constraint: Primary key, prem_amt and maturity_amt should be > 0.

Create a RDB in 3NF and write PL/SQL blocks in Oracle for the following:

- 1) Write a procedure which will display all policy details having premium amount less than 5000.
- 2) Write a trigger which will fire before insert or update on policy_info having maturity amount less than premium amount. (Raise user defined exception and give appropriate message)

Q4. Viva / Oral

Q5. Lab Book

[10]

Q. Write a C program to print Fibonacci series using user defined function.	[15]
Q2. Create a structure Item (Ino, Iname, Price). Accept details of n Items and write a menu driven program to perform the following operations options. [25]	
1. Display all Items having price > 800	
2. Display Item record with Ino=2	[25]
Q3 Consider the following entities and their relationships. Library(<u>Lno</u> , Lname, Location, Librarian,	[40]
no_of_books)Book(<u>Bid</u> , Bname, Author_Name,	
Price, publication)	
Relation between Library and Book is one to	
many.Constraint: Primary key, Price should not	
be null.	

Create a RDB in 3NF and write PL/SQL blocks in Oracle for the following:

- 1) Write a function which will accept publication name from user and display total price of books of that publication.
- 2) Write a cursor which will display library wise book details.(Use Parameterized Cursor)

Q4. Viva / Oral

Q5. Lab Book

[10]

Q1. Write a program to find sum of digits of a given input n Function .	umber using user defined [15]
Q2. Write a C program to accept student details by using U	Inion. [25]
Q3 Consider the following entities and their relationships. Employee (emp_id, emp_name, address)	[40]
Investment (inv_no, inv_name, inv_date, inv_	amount)
Relation between Employee and Investment is One to	
Many.Constraint: Primary key, inv_amount should be :	>
0.	
Create a RDB in 3NF and write PL/SQL blocks in Oracle for t	the following:

- 1) Write a procedure which will display details of employees invested amount in "Mutual Fund"
- 2) Write a cursor which will display date wise investment details.

Q4. Viva / Oral

Q5. Lab Book

[10]

Q1.Write a C Program to swap two numbers using pointers.	
Q2. Write a C program to find the size of the union.	[25]
Q3 Consider the following entities and their relationships. Bill (billno, day, tableno, total)	[40]
Menu (dish_no, dish_desc,	
price) The relationship between Bill and Manu is Many to Many with quantity as	

The relationship between Bill and Menu is Many to Many with quantity as descriptiveattribute.

Constraint: Primary key, price should be > 0. Create a RDB in 3NF and write PL/SQL blocks in Oracle for the following:

- 1) Write a procedure to display menu details having price between 200 to 500 which were order on 'Saturday'.
- 2) Write a trigger which will fire before insert or update on Menu having price less than or equal to zero. (Raise user defined exception and give appropriate message)

Q4. Viva / Oral

[10]

Q5. Lab Book

O1. Program to count vowels and	l consonants in a string using pointer.	[15]
Q1. 1 logiani to count vowers and	consoliants in a string using pointer.	

Q2 Write a C program to declare, initialize an union, [25]

Q3 Consider the following entities and their relationships. [40]

Plan (plan_no, plan_name, nooffreecalls, freecalltime, fix_amt)Customer (cust_no, cust_name, mobile_no)

Relation between Plan and Customer is One to Many. Constraint: Primary key, fix_amt should be greater than 0.

Create a RDB in 3NF and write PL/SQL blocks in Oracle for the following:

- 1) Write a function which will accept plan number from user and display all the details of the selected plan
- 2) Write a cursor which will display customer wise plan details.(Use ParameterizedCursor)

Q4. Viva / Oral

Q5. Lab Book

[10]

Q1. Write a C Program to read array elements and print with addresses.	[15]
Q2.Write a C program to demonstrate example of nested structure.	[25]
Q3 Consider the following entities and their relationships.	[40]
Project (pno, pname, start_date, budget, status)	
Department (dno, dname, HOD, loc)	

The relationship between Project and Department is Many to One.Constraint: Primary key. Project Status Constraints: C – Completed,

P -Progressive,I – Incomplete Create a RDB in 3NF and write PL/SQL blocks in Oracle for the following:

- 1) Write a function which accept department name and display total number of projects whose status is "p"(progressive).
- 2) Write a cursor which will display status wise project details of each department.

Q4. Viva / Oral

Q5. Lab Book

[10]

 Q2. Create a structure Book (Bno, Bname, Price). Accept details of n Books and driven program to perform the following operations options. 1. Display all Books having price > 500 2. Display Book having maximum price 	write a menu [25]
Q3 Consider the following entities and their relationships.	[40]
Gym (Name, city, charges, scheme)	
Member (ID, Name, phoneNo,	
address)	
Relation between Gym and member is one to many.	
Constraint: Primary Key, charges must be greater than	
0.	
Create a RDB in 3NF and write PL/SQL blocks in Oracle for the followin	g:
1) Write a function which will accept member id and scheme from user and displ charges paidby that member.	ay

[15]

Q1. Write a C program to add two numbers using pointers.

2) Write a trigger which will fire before insert or update on Gym having charges less than 1000. (Raise user defined exception and give appropriate message)

Q4. Viva / Oral	[10]
Q5. Lab Book	[10]

Q1. Write a C program to input and print array elements using pointer.

Q2. C program to find number of lines in a file. [25]	
Q3 Consider the following entities and their relationships	. [40]
Student (rollno, sname, class, timetable)	
Lab (LabNo, LabName, capacity, equipment)	
Relation between Student and Lab is Many to One.	
Constraint: Primary Key, capacity should not be null.	

Create a RDB in 3NF and write PL/SQL blocks in Oracle for the following:

- 1) Write a function which will accept Lab number from user and display total number of studentallocated in that lab.
- 2) Write a cursor which will display lab wise student details.

Q5. Lab Book

[10]

[10]

[15]

	0	···· (···· · · · · · ·)	L . J
Q2. C program to create, open ar	nd close a file.		[25]

Q3 Consider the following entities and their relationships. [40]

Wholesaler (w_no, w_name, address, city)Product (product_no, product_name, rate)

O1. Write a C program to find number is Armstrong or not. (Use function)

Relation between Wholesaler and Product is Many to Many with quantity as descriptive attribute.

Constraint: Primary key, rate should be > 0. Create a RDB in 3NF and write PL/SQL blocks in Oracle for the following:

- 1) Write a function which will accept wholesaler name from user and will display total number of items supplied by him.
- 2) Write a trigger which will fire before insert or update on product having rate less than or equal to zero (Raise user defined exception and give appropriate message)

Q4. Viva / Oral

Q5. Lab Book

[10]

[10]

[15]

Q1W	rite a C program to write text (characters) into file and print.	[15]
-	Create a structure Book (Bno, Bname, Price). Accept details of n Books and write 1 driven program to perform the following operations options.	a
1. Di	splay all Books having price > 500	
2. Dis	splay Book having maximum price	
Q3 C	consider the following entities and their relationships.	[40]
	Country (CId, CName , no_of_states, area, location,	
	population)Citizen(Id, Name, mother_toung, state_name)	
	Relation between Country and Citizen is one to	
	many.Constraint: Primary key, area should not be	
	null.	
Create	a RDB in 3NF and write PL/SQL blocks in Oracle for the following:	
1)	Write a function which will display name of the country having minimum population	1.
2)	Write a cursor which will display county wise citizen details.	

[10]

Q5. Lab Book

- Q1. C program to compare contents of two files. [15]
- Q2. Create a structure Item (Ino, Iname, Price). Accept details of n Items and write a menu driven program to perform the following operations options. [25]
- 1. Display all Items having price > 800
- 2. Display Item record with Ino=2

Q3 Consider the following entities and their relationships. [40]

College (code, college_name, address)

Teacher (teacher_id, teacher_name, Qualification, specialization, salary, Desg)

Relation between Teacher and College is Many to One.

Constraint: Primary Key, qualification should not be

null.

Create a RDB in 3NF and write PL/SQL blocks in Oracle for the following:

- 1) Write a procedure which will accept teacher name from user and display his/her college details.
- 2) Write a trigger which will fire before insert or update on Teacher having salary less than orequal to zero (Raise user defined exception and give appropriate message)

Q4. Viva / Oral	[10]
Q5. Lab Book	[10]

Q1. C program to read Content of a File using getc() using C Program.		[15]
m	reate a structure Item (Ino, Iname, Price). Accept details of n Items and write a enu driven program to perform the following operations options. 5]	
1. Disp	play all Items having price > 800	
2. Dis	play Item record with Ino=2	
Q3 Co	onsider the following entities and their relationships.	[40]
	Driver (driver_id, driver_name,	
	address)Car (license_no, model, year)	
	Relation between Driver and Car is Many to Many with date and timeas descriptive attribute.	
	Constraint: Primary key, driver_name should not be null. A RDB in 3NF and write PL/SQL blocks in Oracle for the following:	
1)	Write a function which will display the total number of person who are using "Swif	t" car
2)	Write a trigger which will fire before insert or update on year. If year value is more current year. (Raise user defined exception and give appropriate message)	e than
Q4. Vi	iva / Oral [1	10]

Q5. Lab Book

Q.1C program to convert All Characters in Upper Case of a File using C Program. [15]

Q2. Create a structure student with members (rollno, name and marks). Create a structure array of 10 students and display the students with max and min marks.

[25]

[40]

Q3 Consider the following entities and their relationships.

Game (game_name, no_of_players, coach_name) Player (pid, pname, address, club_name)

Relation between Game and Player is Many to Many. Constraint: Primary key, no_of_players should be > 0.

Create a RDB in 3NF and write PL/SQL blocks in Oracle for the following:

- Write a procedure which will display games details having number of players more than 5.
- 2) Write a trigger which will fire before insert or update on Game having no_of_players less than or equal to zero. (Raise user defined exception and give appropriate message)

Q4. Viva / Oral	[10]

Q5. Lab Book

Q1. C program to delete a specified file using remove() function [15]

Q2. Define a structure student with members (rno, name and DateOfBirth). DateOfBirth is another structure nested within student. Create one student, set the data of the student and display the data.

	[25]
Q3. Consider the following Item_Supplier database	[40]
Company (name , address , city , phone , share_value)	
Person (pname ,pcity)	

Relationship between Company and Person is M to M relationship with descriptive attribute No_of_shares i

Constraints: name,pname primary key

Create a RDB in 3NF and write PL/SQL blocks in Oracle for the following:

- 1) Write a trigger before insert or update on No_of_shares field should not be zero.(Raise user defined exception and give appropriate message)
- 2) Write a function to display total no_of_shares of a specific person.

Q4. Viva / Oral

[10]

Q5. Lab Book

Q1. C program to remove a specific line from the text file [15]

Q2. Write C program to accept the details of employee and display them using structure. Details consist of Employee ID, Name, Designation, Department, Salary.

[25]

Q3. Consider the following entities and their relationship.

[40

]Student (s_reg_no, s_name, s_class)

Competition (comp_no, comp_name, comp_type)

Relationship between Student and Competition is many-to-many with descriptiveattribute rank and year.

Constraints: primary key, foreign key, primary key for third table(s_reg_no, comp_no,year),s_name and comp_name should not be null,comp_type can be sports or academic.

Create a RDB in 3NF and write PL/SQL blocks in Oracle for the following:

- 1) Write a function which will accept s_reg_no of student and returns total number of competition in which student has participated in a given year.
- 2) Write a cursor which will display year wise details of competitions. (Use parameterized cursor)

Q4. Viva / Oral

[10]

Q5. Lab Book

- Q1. C program to replace the specified line in an existing text file [15]
- Q2. Write C program to accept the details of employee and display them using structure. Details consist of Employee ID, Name, Designation, Department, Salary.

02 Canaidan tha fallowing antities and their velotionshing	[25]
Q3 Consider the following entities and their relationships.	[40]
Game (game_name, no_of_players,	
coach_name)Player (pid, pname, address,	
club_name)	
Relation between Game and Player is Many to Many.	
Constraint: Primary key, no_of_players should be >	
0.	
Create a RDB in 3NF and write PL/SQL blocks in Oracle for the following:	
1) Write a function which will return total number of football players of "Spot	rts Club".
2) Write a cursor which will display club wise details of players.	
Q4. Viva / Oral	[10]

Q5. Lab Book

Q1. Write a accept a number n from user and display first n terms of Fibonacci series using Function. [15]

Q2. Write C program to accept batting information of cricket team using structure. It contains player name and runs scored by player. Calculate total runs scored by cricket team.

	[25]
Q3 Consider the following entities and their relationships.	[40]
Driver (driver_id, driver_name,	
address)Car (license_no, model, year)	
Relation between Driver and Car is Many to Many with date and timeas descriptive attribute.	
Constraint: Primary key, driver_name should not be null. Create a RDB in 3NF and write PL/SQL blocks in Oracle for the following: 1) Write a procedure to display car details used on specific day.	
2) Write a cursor which will display driver wise car details in the year 2018.	
Q4. Viva / Oral	[10]
	54.03

Q5. Lab Book

- Q1. Write a C program to accept the values of x and y and then display x^y using function. [15]
- Q2. Write a C program to read information of student. It contains Name, Roll number, Birthday, admission date. Calculate age of student at the time of admission.
- Q3 Consider the following entities and their relationships.
 [40]

 College (code, college_name, address)
 Teacher (teacher_id, teacher_name, Qualification, specialization, salary, Desg)

 Relation between Teacher and College is Many to One.
 Constraint: Primary Key, qualification should not be null.

 Create a RDB in 3NF and write PL/SQL blocks in Oracle for the following:
 1) Write a function which will accept college name from user and display total number of "Ph.D" qualified teachers.

 - 2) Write a cursor which will display college wise teacher details.

O_{4} Winner (O_{12}	[10]
Q4. Viva / Oral	[10]

Q5. Lab Book

[10]

[25]

Q1. Write a java script code to accept a string and write a function to calculate length of string

[15]

- Q2. Write C program to accept the details of employee and display them using structure. Details consist of Employee ID, Name, Designation, Department, Salary.[25]
- Q3 Consider the following entities and their relationships. [40]

Country (CId, CName, no_of_states, area, location,

population)Citizen(Id, Name, mother_toung, state_name)

Relation between Country and Citizen is one to

many.Constraint: Primary key, area should not be

null.

Create a RDB in 3NF and write PL/SQL blocks in Oracle for the following:

- 1) Write a procedure to display name of citizens having mother toung "Marathi " and from "India";
- 2) Write a trigger which will fire before insert or update on country having no_of_state lessthan equal to zero. (Raise user defined exception and give appropriate message)

Q4. Viva / Oral

Q5. Lab Book

[10]

Q1. Write a C Program to accept a number and write a function to calculate sum of digits ofthat number using function. [15]

Q2. Write C program to read the details of two workers and calculate total payment of workers using structure. [25]

Q3 Consider the following entities and their relationships. [40]

Wholesaler (w_no, w_name, address, city)Product (product_no, product_name, rate)

Relation between Wholesaler and Product is Many to Many with quantity as descriptive attribute.

Constraint: Primary key, rate should be > 0. Create a RDB in 3NF and write PL/SQL blocks in Oracle for the following:

- 1) Write a procedure which will display details of products supplied by "Mr. Patil"
- 2) Write a cursor which will display wholesaler wise product details.(Use Parameterized cursor)

Q4. Viva / Oral

Q5. Lab Book

[10]

Q1. Write a program to copy one file to the other [15]

Q2. Write C program to read the details of two workers and calculate total payment of workers using structure. [25]

Q3 Consider the following entities and their relationships.	[40]
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Student (rollno, sname, class, timetable) Lab (LabNo, LabName, capacity, equipment)

Relation between Student and Lab is Many to One.

Constraint: Primary Key, capacity should not be

null.

Create a RDB in 3NF and write PL/SQL blocks in Oracle for the following:

- 1) Write a procedure to display details of students which perform practical sessions in a given Lab.
- 2) Write a trigger which will fire before delete on Lab (Raise user defined exception and giveappropriate message)

Q4. Viva / Oral

Q5. Lab Book

[10]

- Q1. Write a C program to display only special characters from a file. [15]
- Q2 Write a 'C' program to create a structure containing Student Roll No., Name and Marks. Display student information having marks greater than 40. [25]
- Q3 Consider the following entities and their relationships. [40]

Gym (Name, city, charges, scheme) Member (ID, Name, phoneNo, address) Relation between Gym and member is one to many. Constraint: Primary Key, charges must be greater than 0.

Create a RDB in 3NF and write PL/SQL blocks in Oracle for the following:

- 1) Write a procedure to display member details of gym located at "Pimpri"
- 2) Write a cursor which will display gym wise member details.(Use Parametrized Cursor)

Q4. Viva / Oral

Q5. Lab Book

[10]

Project Status Constraints: C – Completed,

P -Progressive,I – Incomplete Create a RDB in 3NF and write PL/SQL blocks in Oracle for the following:

- 1) Write a procedure to display the name of HOD who has completed maximum project.
- 2) Write a trigger which will fire before insert or update on project having budget less than or equal to zero. (Raise user defined exception and give appropriate message)

Q4. Viva / Oral	Q4.	Viva	/ Oral
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Q5. Lab Book

[10]

[15]

Q1. Write a C program to display the file in reverse. [15]

Q2. Define a structure student with members (rno, name and DateOfBirth). DateOfBirth is another structure nested within student. Create one student, set the data of the student and display the data.

[25]
Q3 Consider the following entities and their relationships.
Plan (plan_no, plan_name, nooffreecalls, freecalltime, fix_amt)Customer (cust_no, cust_name, mobile_no)
Relation between Plan and Customer is One to Many. Constraint: Primary key, fix_amt should be greater than 0. Create a RDB in 3NF and write PL/SQL blocks in Oracle for the following:

- 1) Write a procedure to display the plan having minimum response.
- 2) Write a trigger which will fire before insert or update on mobile number having length less than or greater than10. (Raise user defined exception and give appropriate message)

Q4. Viva / Oral

[10]

Q5. Lab Book

Q1. Write a 'C' program to display alternate character in existing file. [15]

Q2. Create a structure employee with members (id, name and sal). Create a structure array of 10 employees and display the emp with max and min salary. [25]

Q3 Consider the following entities and their relationships. [40] Bill (billno, day, tableno, total) Menu (dish_no, dish_desc, price)

The relationship between Bill and Menu is Many to Many with quantity as descriptiveattribute.

Constraint: Primary key, price should be > 0. Create a RDB in 3NF and write PL/SQL blocks in Oracle for the following:

- 1) Write a function which accept a table number and display total amount of bill for a specific table
- 2) Write a cursor which will display table wise menu details.

Q4. Viva / Oral

Q5. Lab Book

[10]

Q1 Write a C program to find the factorial of a number. (Use recursion) [15]

Q2. Create a structure student with members (rollno, name and marks). Create a structure array of students as requires. Accept the data and display the data of the students. [25]

Q3 Consider the following entities and their relationships. [40] Employee (emp_id, emp_name, address) Investment (inv_no, inv_name, inv_date, inv_amount)

Relation between Employee and Investment is One to Many.Constraint: Primary key, inv_amount should be > 0.

Create a RDB in 3NF and write PL/SQL blocks in Oracle for the following:

- 1) Write a function which will return total investment amount of a particular client.
- 2) Write a trigger which will fire before insert or update on Investment having investment amount less than 50000. (Raise user defined exception and give appropriate message)

Q4. Viva / Oral

Q5. Lab Book

[10]

Q1. Write a C program to read an integer, find the sum of digits of a given integer using recursive function. [15]

Q2. Create a structure student with members (rollno, name and marks). Create a structure array of 10 students and display the students with max and min marks.

[25]

Q3 Consider the following entities and their relationships. [40] Library(Lno, Lname, Location, Librarian, no_of_books)Book(<u>Bid</u>, Bname, Author_Name, Price, publication)

Relation between Library and Book is one to many.Constraint: Primary key, Price should not be null.

Create a RDB in 3NF and write PL/SQL blocks in Oracle for the following:

- 1) Write a procedure to display names of book written by "Mr. Patil" and are from "DPULibrary".
- 2) Write a trigger which will fire before insert or update on book having price less thanor equal to zero. (Raise user defined exception and give appropriate message)

Q4. Viva / Oral

Q5. Lab Book

[10]

FYBBA CA Semester-II				
Course Code: 23BA2-I062	Subject : English fo	r Business Communication	Marks : 50 Credits : 2	
Course Objectives : To develop effective soft s To know the recent trends		nication.		
Course Outcome : After completing the cour CO1: Demonstrate effecti CO2: Demonstrate the use	ve soft skills			
Unit	Unit Title	Contents		
I	Introduction to Soft Skills	1.1.Concept ,need and functions of soft sh Effective Presentation skills and overcom Using body language effectively Negotiation skills Group discussion and debates Listening skills		
II	Recent trends in corporate Communication	Email- Types, Components, Do's and Do Social Media Communication Branding Communication and Signage co Emotional Intelligence and Critical think Resume writing and interview preparation	ommunication ing	

Unit	Unit Title	Teaching methodology	Outcome expecte understanding Knowledge/Skill	s/Attributes etc.	Weightageof Marks (%)
			Course Outcome(CO)	Learning Outcome (LO)	
1	Introduction to Soft Skills	PPT, discussion, demonstration		Conceptual understanding, reflective skills	50%
2	Recent trends in corporate Communication	PPT, discussion and demonstration, social media activity	able to	Conceptual skills, reflective learning, creativity	50%

Unit	Evaluation Method	Marks (100))		Project/Practical(If
		Formative	Assessment	Summative Assessment	any)
		CCE I(10)	CCE II(10)	SEMESTER(30)	
Ι	Home Assignments	10 M			-
II	Descriptive Paper	-	10 M	30 M	-

Suggested Readings:

		Publication
Business Communication	Meenakshi Raman ,	Oxford
	Prakash Singh	
Business Communication	HomaiPradhan , N.S.	Himalaya
	Pradhan	
Business Communication	R.K. Madhukar	Vikas
Business Communication –	HorySankarMukerjee	Oxford
Connecting at work		
Business Communication Today	Courtland L. Bovee ,	Pearson
	John V. Thill ,	
	AbhaChatterjee	
Hand Book of internal	Eileen Scholes	Infinity Books
Communication		
Soft Skills for Everyone	Jeff Butterfield	Cengage Learning, India
	Business Communication Business Communication Business Communication – Connecting at work Business Communication Today Hand Book of internal Communication	Prakash SinghBusiness CommunicationHomaiPradhan , N.S. PradhanBusiness CommunicationR.K. MadhukarBusiness Communication – Connecting at workHorySankarMukerjeeBusiness Communication TodayCourtland L. Bovee , John V. Thill , AbhaChatterjeeHand Book of internalEileen ScholesCommunicationEileen Scholes

Suggested Web/E learning Resources:

SR NO	-	Lectures (Available on Youtube/Swayam/MOOCS etc)		Journals/Articles/Case studies
1	Introduction to So Skills	ft 1. <u>https://www.youtube.com/wa</u> <u>v=6NADEfJOVNo</u> 2. <u>https://onlinecourses.nptel.ac</u> <u>21_hs76/preview</u>	-	
2	Recent trends in Communication	https://archive.nptel.ac.in/cou 9/105/109105144/	$\frac{1}{3}$	_

Environment Awareness Part-II

F. Y. BBA,BBA-IB,BBA-DI			
Course Code: 23BA2-J082	Course Title: Environmental Awareness Part-II	Marks: 50 Credits: 2	
Course Objectives	:		
	vareness regarding Environmental issues		
•	ge them to take steps for the conservation of environment for s	ustainability	
	e students in changing their attitude towards environment	ion	
4. To encoura	ge them to take steps for environment protection and preservat	1011	
Course Outcome:			
CO1:Awarenesss w	ill be created among students for identification of environment	tal issues	
CO2: Environment	al Ethical Norms will be followed by students for sustainabilit	У	
CO3: Students prec	autionary behavior will get developed towards environment		
CO4: Eco –friendly	behavior will get developed		
	benavior will get developed.		

Syllabus Content

S.No.	Content	Total No of Lectures	
1	Lectures on Field visit and Importance of environment	10 Hrs	
	Pre – Study before the field Visit,		
	Elements of Environment		
	Advance Environmental topics		
	Lecture on preparation on Environmental report		
2	Actual Field Visit	10 Hrs	
3	Preparation of Report	10 Hrs	
	Total	30	

Teaching Methodology

Sr. No Online/Offline Experts Study Material		Sr. No	Online/Offline	Experts	Study Material
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			Online(share link)
1	Actual visit to	Dr. Neha Joshi	PPT on related
	Various places	Dr. Nirbhay Pimple	subjects and format
	Eg. Mula Mutha	Prajakta Abhang	project report
	River, Taljai Tekdi		
	, Pu.La Deshpande		
	Garden, Empress		
	Garden, Kamla		
	Nehru Park		

Evaluation Method:

Unit	Evaluation Method	Marks (50)			Project/Practical
		Assess	ment	Summative Assessment	(If any)
1	Checking the Project Report			Marks 50 -	Project -

PErval

Prof. Dr. Sulabha Patole Officiating Principal