

SUBJECT : PAPER-306 : PRACTICAL

SECOND YEAR B.C.A. (SEM. III) EXAMINATION

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Second Year B.C.A. (Sem. III) Examination

November / December – 2014

Practical: Paper-306

[Time: 5 Hours]

[Total Marks: 140]

Instructions

(1)

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(2) Marks are indicated at the right side of every question.

(3) All questions are compulsory.

1. Write a program that works with two files. In first file store the rollno, name, city of five students. In second file store result details (rollno, marks, status [P = PASS, F= FAIL, A=ABSENT] for each student.

Perform following operations.

40

- Display list of fail students
- Display list of absent students.
- Display mark sheet based on roll number.

2. Write a program to implement **Output restricted Dequeue** using **Linked List** and perform insert and delete-operations on it. **40**

- 3. Consider the following tables. 40**
- Company** (cno, cname , country)
Medicine (mid, cno, mname, type [S= syrup , I = injection , T = tablet] , price)
- (A) Solve the following queries. 15**
1. Create the tables with necessary constraints and enter suitable data.
 2. Display details of the medicine which are made in japan.
 3. Display total number of medicine made by each company.
 4. Display medicine name, company name and price of all the tablets.
 5. Display name of company which makes more than 2 types of syrup.
- (B) Write a PL/SQL Function that will take as a parameter medicine type 25**
the company name as an arguments and return the number of company
form the given company. That make the given type of medicine. Also write
the calling program.
- 4. Viva and Journal. 20**

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Second Year B.C.A. (Sem. III) Examination

December – 2015

Practical: Paper-306

[Time: 5 Hours]

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1. Create the following table.

40

Product master

Prd_no	varchar2(6) p.k.
Prd_desc	varchar2(15)
Qty_on_hand	n(8)
Sell_price	n(8,2)
Cost_price	n(8,2)

Sales order details

Order_no	varchar2(5)
Prd_no	varchar2(6) f.k.
Qty_order	n(8)
Prd_rate	n(10,2)
Order_date	date

1) Solve the following queries.

- (a) Display Order no, order date, Product name, qty_order between is between the month january to march.
 (b) Display products information which order in the current month.
 (c) Display product information which is not yet sold.

- (d) Delete all order details for the product name start with J or T.
- (e) Change Sell_price and Cost_price as 100 and 50 for the product `trouser`.

- (A) Create **UDF** which check whether the Qty_order is less than Qty_on_hand for particular Prd_no.
- (B) If Qty_order is less than Qty_on_hand then return value to calling environment and update the stock otherwise raise the exception and Display message "QTY_ON_HAND IS LESS THEN ORDER QUANTITY". **(use Procedure)**

- 2. Write a program to convert infix expression into prefix expression. **40**
- 3. Create a class "emp" containing the data members Name of employee, Employee number, Basic salary, Allowance. Take appropriate member function and data into class ,then after write data file called "**emp.dat**" until user choice. Display the information of all employee form a file along with pf, total salary. Use read() and write() binary function for file.
[pf=12% of basic salary, total salary= basic salary + Allowances – pf] **40**
- 4. Viva + Files **20**

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1. Create following tables with appropriate constraint:

40

Doctor (D_id, D_name, D_city) (D_id must be start with 'D')

Patient (P_id, P_name, P_city) (P_id must be start with 'P')

Bill (B_id, P_id, D_id, bill_date, bill_amt) (B_id must be start with 'B')

- (1) Display the patient name who live in the same city as their doctor city.
- (2) Display patient information for the bill paid in `June-15'.
- (3) Display doctor wise total no. of patients.
- (4) Display patient name whose bill amount is between 25000 To 30000.

Display patient name, doctor name and bill amount in the order of patient name.

- a) Create a procedure that accept B_id and return P_name, P_city, D_name and Bill_amount details if B_id not available then raise exception.
- b) Create a trigger that generate primary key value on P_id in Patient Table (use sequence Eg.P001)

2.
 1. Write a C program to important circular queue. **20**
 2. Write a program to evaluate the postfix expression. **20**
3. Create a class 'Bank' comprises of data like bank_id, bank_name, branch_name **40**
And create another class 'Account' which holds data like ac_no, ac_name, ac_type(saving/current) and balance. Create another class 'Transaction' Which holds the functions to perform following operations:
 1. Create New account
 2. Deposit & Withdraw (Min. 500 balance) in particular account.
 3. List out details of only those accounts whose type is 'current'.
4. Viva + Files **20**

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1. Create the following table with appropriate constraint :

40

Book_mst table

Book_no varchar2(4)
 Book_name varchar2(25)
 Author varchar2(20)
 Publisher varchar2(20)
 No_of_copy number(3)
 Price number(6,2)

Stud_mst table

Lib_no varchar2(5)
 stud_name varchar2(6)
 Book_no varchar2(4)
 Trac_type varchar2(10)
 (type should be either issue/return)

1) Solve the following queries.

- (a) Display all student name who have more than two books.
 (b) Display all student who have "RDBMS" book.
 (c) Delete records from stud_mst for all students who have "OOPs" book.

(d) Change transactions type to “R”(return) for all transaction whose transaction type is “I” (issue) and Book_name is “DS”.

Display Book name which is not yes issue.

A book seller maintains the stock of books whenever bookseller purchase new books.

Create a Package for the following :

- a. Write a function to check for purchase book already available or not.
- b. If available then update the stock otherwise insert into the book_mst table.(Make Use Procedure).

2. Write a menu driven program to push and pop into dynamic stack. 40
3. Create a class **Str** which stores a string value. Overload +, =, = for concatenation and comparison operation respectively. 40
4. Viva + Files 20

Second Year B.C.A. (Sem. III) Examination

November / December – 2016

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- 1. Write a program to perform the following operations on Doubly Circular Linked list : 40**
- (i) Add a node at end
 - (ii) Delete a node at particular locations
 - (iii) Sort the nodes in ascending order
 - (iv) Display the list
- 2. Create a class 'vehicle' which contains data members Registrations Number and fuel type. Make getdata() function to input data value. Create a class 'Four wheeler' from 'vehicle' which contains data members distance and mileage. Create getdata() function for accept values ,use overriding technique for getdata() function and display information with fuel used. 40**

- 3. Department** (DepartmentId, DepartmentName) **40**
Employee (EmployeeId, Fname, Mname, Lname, Designation, DOB, DOJ, Salary)
EmployeeDept (EmployeeDeptId, EmployeeId, Fname, Mname, Lname, DOB, DOJ, Salary, Designation, DepartmentId, DepartmentName)
- 1. Write a program using PL/SQL that**
 - (1)** Fetches a department from the Department table.
 - (2)** For each such department, fetches employee information belonging to that department from the employee table.
 - (3)** Then insert all this information into EmployeeDept table.
 - 2.** Write a procedure to display top 3 highest salary gaining employee name.
- 4. Viva and Journal.** **20**

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1. Write a program to perform the following operations on **Doubly circular Linked list** : **40**
1. Add a node after a specific node
 2. Delete a node from specific location
 3. Delete a node after a given node
 4. Search a value from the nodes
2. Write a program to create a class shape with functions to find area and display the name of the shape and other essential component of the class. **40**
Create derived circle, rectangle and trapezoid each having overridden functions area and display. Write a suitable program to illustrate virtual functions.

- 3.** Branch (BranchId, BranchName, Pincode) **40**
Employee (EmployeeId, Fname, Lname, DOJ, BranchId)

Create a function to perform :

1. Accept the branch number and calculate the number of employee in that branch and finally return the number of employee.

Create a procedure to perform :

- (1) Accept the branch number
- (2) Using the function created will get the employee count for the Branch number accepted
- (3) Based on the employee count a decision will be taken to delete The employees belonging to that branch followed by deleted the Branch.
- (4) If the employee count is less than 2 then
 - All employees who belonging to that branch are deleted and that branch having less than 2 employees is also deleted.

- 4.** Viva and Journal. **20**

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1. Write a program to perform the following operations on singly linked list: 40

- (i) Add a node at particular location
- (ii) Delete a node at end
- (iii) Sort the nodes in descending order
- (iv) Reverse the list and Display the list

2. Write a program with Student as abstract class and create derive classes - 40
B.C.A., B.B.A. and B.Sc., StudentName, Department as data members and member functions are getData and setData from base class student. Create the objects of the derived classes and process them and access them using array of pointer of type base class Student.

3. Create following tables.

40

FD_DTLS (FD_ID, AMT, DUEAMT, OPENDT, DUEDT, STATUS)

TRAN_MST (TRANS_ID, ACCT_ID, DT, DR_CR, AMT, BALANCE)

ACCT_MST (ACCT_ID, CUST_ID, TYPE_OPENDT, CURBAL, STATUS)

1. Fixed Deposit Maturity System whenever a fixed deposit is due for payment and if there are fixed deposit amount is greater than 20000 then crediting fixed deposit amount on maturity to their account held in bank otherwise provide message for cash payment in allow, an entry is passed in TRAN_MST table for deposit of the fixed deposit amount as well as ACCT_MST table is updated to reflect the increase of the current balance. Finally the status of that fixed deposit id updated as 'M' as matured in the FD_DETTS table. Perform With the help of cursor and procedure.
2. Generate Id with trigger, Transaction Id start with "T" FD_ID start with "FD" and Account Id start with "AC".

4. Viva and Journal

20

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1. (a) Write a PL/SQL block for 20
 1. If Goods and Services is in "Commonly used Goods and Services" Category then apply – 5% GST Rate.
 2. If Goods and Services is in "Standard Goods and Services Slab1" fall under 1st slab category then apply – 12% GST Rate.
 3. Increase GST rates of services "Standard Goods and Services Slab2" Category then apply – 18% GST rate.
 4. "Special category of Goods Services Luxury" including luxury -28% GST Rate.

Category (CategoryId, CategoryName)
Services (ServicesId, CategoryId, ServicesName, GST Rate)
- (b) Write a **trigger** that will not allow the changes to the GST on Goods and Services belongs to "Exempted " categories (more than – 0% GST Rate). 20
2. Write a program for Bubble Sort on Linked List. 40
3. Write a C++ program for Addition and Multiplication of two matrices by Overloading + and * Operators. 40
4. Viva and Journal. 20

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1. (1) Write a **PL/SQL block** that will accept an account number from the user and debit an amount of Rs. 5000 from the account if account has a minimum balance Rs. 1000 after amount is debited. **20**

Customer (CustomerId, CustomerName)

Account (AccountId, CustomerId, AccountType, Balance)

(2) First the trigger determines the day of the week. If the day is Saturday or Sunday, an error message is generated. When the following UPDATE statement on the Account table is issued on Saturday or Sunday. **20**

2. Linked lists :

40

1. Write an algorithm to detect a cycle in a linked list.
2. Remove consecutive duplicate entries from a given linked list.
3. Get the k-th to the last element in the linked list
(When the size of the list is not known/tracked)
4. Check if the linked list is a palindrome.

3. Given a set of nine single digits (not necessarily distinct) say 0,0,1,3,4,6,7,8,9. It is possible to form many distinct times in a 12 hour time format HH:MM:SS, Such as 10:36:40 or 01:39:46 by using each of the digits only once. The Objective is to find the maximum possible valid time (00:00:01 to 12:00:00) that can be formed using some six of the nine digits exactly once. In this case, It is 10:49:38.

40

Example :

- (1) Set = {0,1,3,4,2,1,5,8,0}
It will print : 11:58:43
- (2) Set = {0,9,6,9,7,8,9,6,3}
It will print : Impossible Operation!

4. Viva and Journal.

20

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1. (i) Write a **PL/SQL block** of code that raise the salary for all the employees In "JAVA" department by 20%. 20
DEPARTMENT (DepartmentId,DName)
EMPLOYEE (EmployeeId, EName , Salary DepartmentId)
EMPRAISE (EmpRaiseId, EmployeeId, RaiseDate, RaiseAmount)
 - (ii) Write a trigger when any raise is given to the employees, an audit trail Of the same is maintained in the EmpRaise table. 20
 2. Write a recursive algorithm for binary search. 40
 3. Write a program to create class to read and add two times using binary Plus (+) operator overloading program in C++. 40
 4. Viva and journal. 20

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1. Create the following tables with appropriate constraint :

25

Emp_mst (Empno, Ename, city, Dob) (Empno must be start with 'E')

Branch (B_code, bname, br_city) (B_code must be start with 'B')

Emp_detail (B_code, Empno, Job, Basic_sal, Doj, Manager_no)

A. Write a procedure to display five recently joined employees

Employee Details

BranchName Empno EmpName Doj City salary

Total Salary -----

- B.** Create a trigger that will not allow to delete after working hours (10 A.M To 5 A.M) and Sunday in Emp_mst table. **15**
- 2. A.** Write a program to implements dynamic queue. **25**
- B.** Write a program to perform insertion sort. **15**
- 3.** Write a menu driven program in C++ to create a class “Emp” containing member variables like eno,name and salary perform following action : **40**
1. Save data into the file
 2. Retrieve data from the file
 3. Give increment to employees have salary > 5000.
- 4.** Viva and journal. **20**

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<p>Fill up strictly the details of signs on your answer book</p> <p>Name of the Examination: <input type="checkbox"/> Second Year B.C.A. (Sem. III)</p> <p>Name of the Subject : <input type="checkbox"/> Practical: Paper-306</p> <p>Subject Code No: <input type="text" value="3"/> <input type="text" value="5"/> <input type="text" value="4"/> <input type="text" value="5"/></p>	<p>Seat No.:</p> <table border="1"><tr><td><input type="text"/></td><td><input type="text"/></td><td><input type="text"/></td><td><input type="text"/></td><td><input type="text"/></td><td><input type="text"/></td></tr></table> <p>Student's Signature</p>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
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(2) Marks are indicated at the right side of every question.

(3) All questions are compulsory.

1. (1) **Book** (Bookid, BookName, Author, Publisher) 20

Student (Studentid, StudentName)

BookIssue (BookIssued, BookId, StudentId, IssueDate, ReturnDate, BookStatus)

Write a PL/SQL code block :

1. Accept student name and display all books issued by student.
2. Display all the student name who don't return on return date.
3. Display all the student who don't issue book since last 3 months.
4. Display all the students who issue 3 books.

(2) Write a database trigger that not allowing change Bookissue table after working 20
Hours (from 8:00 A.M. to 4:00 P.M.) from Monday to Saturday. There is no restriction
On viewing data from a table.



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2. (1) Write a program for Pre-order, post-order and in-order traversal of a binary tree. **20**
(2) Write a program for reverse a queue using recursion. **20**

3. (1) Write a program that defines a class and overload =, < and > operators to compare Two dates. **20**
Notes :
It returns 0 if both dates are equal.
It returns a negative value if first date is less than second one.
It returns a positive value if first date is greater than second one.

- (2) Write a program that overload new delete operator. **20**

4. Viva and journal. **20**

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Second Year B.C.A. (Sem. III) Examination

November / December – 2018

Practical: Paper-306

[Time: 5 Hours]

[Total Marks: 140]

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(2) Marks are indicated at the right side of every question.

(3) All questions are compulsory.

1. (1) Write a PL/SQL block for Online Shopping Site's offer Zone section "Deals Of the day". 20

Category (CategoryId, CategoryName)

Product (ProductId, CategoryId, ProductName, Price, Discount)

AuditOffer (OfferId, CategoryId, ProductId, Discount)

1. Apply 5% discount for the products belongs to "Electronics" category.
2. If product is in "Sports" category than apply 10% discount.
3. Increase discount 10% to 15% for the products of "Fashion and Lifestyle" Category.
4. Offer 20% discount for the products of "Home and furniture" category.

(2) The system must keep track of the original records that are being modified In the **AuditOffer** table. 20

2. (1) Implement the **quick sort** and **selection sort** to arrange a list in descending order 20
For character and numeric digit :
1. 66, 77, 11, 88, 99, 22, 33, 44, 55, 77, 03, 04, 05
 2. S, T, R, U, C, T, U, R, E, S, D, A, T, A
- (2) Implement **linked list** : 20
1. Delete a node at Nth position
 2. Sort the nodes in descending order
 3. Search an element from Nth node position
 4. list out elements of linked list
3. (A) **Do As Follow:** 20
- (1) Write a program to check whether a number is even or odd by Overloading operator.
 - (2) Check whether a number is prime or not by overloading - - operator.
(Use the concept of overloading ! operator.)
- (B) Write an interactive menu driven program that can perform the following 20
Operation on strings.
1. Compare two strings for equality (== operator)
 2. Check whether first string is larger than the second (=> operator)
 3. Concatenate two strings (+ operator)
 4. Reversing the string (>> operator)
4. Viva and Journal. 20

Second Year B.C.A. (Sem. III) Examination

April / May – 2013

Practical: Paper-306

[Time: 5 Hours]

[Total Marks: 140]

Instructions:

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(2) Figure on right indicate marks.

1. Create a class **employee** having data members **emp_id,ename** and the member

40

Functions to perform the following task

- (a) Input the **employee** details
- (b) Display the **employee** details

Create the class **calculate** which contain the information of HRA, DA, IT, Basic Salary. Member functions are **getsalary()** which return salary and **display()**

Which display the employees name, **emp_id** and salary.

Create another class **salary** which calculate the net salary and member functions

are **getsalary()** which return salary and **display()** which display **emp_name, emp_id,**

basic and **net salary.**(Use the concept of Multilevel inheritance)

2. Write PUSH() and POP() operation of stack when stack is implemented 40
Using singly linked list.

3. Create the following tables with necessary constraints: 40
deposit (actno, cno, bno, amt, adate)
Branch(bno, bname, city)
Customer(cno, cname, city)
Borrow(loanno, cno, bno, amt)

Write the following SQL command for tables :

- (i) Give the names of customer having the same living city as their branch city.
- (ii) Give the names of depositors having the same branch as the branch of 'sunil'.
- (iii) Display the branch cities of 'anil' and 'sunil'.
- (iv) Display the total loan taken from surat branch
- (v) Give name of customers having more deposit than the average deposit in their respective branches.
 - (a) Write a function which display the customer name whose loan amount fall between a given range.
 - (b) Write a database trigger, which will not allow any transaction after bank office hours and on Sunday.

4. Viva and Journal 20

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Second Year B.C.A. (Sem. III) Examination

March / April – 2014

Practical: Paper-306

[Time: 5 Hours]

[Total Marks: 140]

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- (2) Figure on right indicate marks.
- (3) All questions are compulsory.

1. Write a program to implement singly linked list which manage students details rollno, name and total marks out of 300. Perform following task on singly link List. **40**

- 1. Insert node to the list in the order of roll number.
- 2. Delete node which contains specific rollno.
- 3. Display student names and roll number in proper format.

2. Consider a shopping list of items for which we place an order. Create a file which stores item details. Item detail includes item code, item name, number of quantity and price per quantity. Write a C++ program that allow add item, update item and display item with total amount(price * Quantity). **40**
Insert at least 5 records of an item.

3. (A) Create the following tables with proper constrain. 40

Customer (Cust_id, Cust_name, Cust_address, Cust_phone)

Bank (Bid, B_name, B_address, B_phone)

Loan (L_id, L_type, Lamount, Bid, Cust_id)

Where L_type should be 'Home', 'Car', 'Personal' or 'education'. Insert minimum 10 records and do following :

(B) Write a query for the following:

1. Find out Customer details who has taken a 'personal' loan.
2. Find out customer who has taken loan from 'ICICIBANK'.
3. Total_loan_amount from each loan type using group by.

(C) Create a procedure that accepts cust_id and return cust_name, B_name, L_type, L_amount.

(D) Create a trigger on customer when delete cust_id from customer table then it will delete Loan Table data associated with deleted cust_id.

4. Viva and Journal 20

Second Year B.C.A. (Sem. III) Examination

April / May – 2015

Practical: Paper-306

[Time: 5 Hours]

[Total Marks: 140]

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- (2) Marks are indicated at the right side of every question.
- (3) All questions are compulsory.

1. Create a class called ACCOUNT. Derive two different class DEPOSITE and WITHDRAW from it. Derive one more class ACCESS from DEPOSITE and WITHDRAW. Give the following facilities. 40

- To create an account.
- To Deposit an amount.
- To withdraw an amount.
- To check balance

2. Write a program to perform quick sort on unsorted elements of an array. 40

3. Consider the following tables. 40

Menu (Item_id, name, price, category [rice, vegetable, roti, starter, soup])

Order (o_id, item, table_no, qty)

(A). Solve the following queries. 20

- 1) Create the tables with necessary constraints and enter suitable data.
- 2) Display the name of items which are ordered in quantity more than One
- 3) Display the order in which items ordered belong to two or more category.
- 4) Display the table number who ordered the most costly item.
- 5) Display category wise price of most costly item.

(B). Create a trigger that will make sure that order quantity cannot be zero or Negative. 20

4. Viva and Journal. 20

Second Year B.C.A. (Sem. III) Examination

March / April – 2019

Practical: Paper-306

[Time: 5 Hours]

[Total Marks: 140]

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(2) Marks are indicated at the right side of every question.

(3) All questions are compulsory.

1. (A) Write a PL/SQL block of code that will merge the data available in the newly 20
Create table NEW_PRODUCT with the data available in the table PRODUCT_MSTR.
If the data in the first table exists in the second table then that data should
be skipped.

PRODUCT_MSTR (ProductId, ProductName, Price, Discount)

NEW_PRODUCT (NPid, ProductName, Price, Discount)

- (B) Write a database trigger to generate Primary Key using sequence for 20
PRODUCT_MSTR table.

2. (A) Implement doubly linked list : 20
1. Insert at Nth Position.
 2. Update Node at Nth position
 3. Search element
 4. Reverse elements in list and display elements list.
- (B) Write a recursive program to merge two unordered linked lists such that Merge list is in reverse order. 20
3. (A) Write a program to print time object by overloading '<<' operator. 20
- (B) Write a program to create a class Account with functions SetBalance, GetBalance to find Balance of and display the name of the account and other essential component of the class. Create derived classes CheckingAccount and SavingsAccount each having overridden function GetBalance. Write a suitable Program to illustrate virtual functions. 20
4. Viva and Journal. 20

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