Practical Examination (2021-22)

Sub: Computer Science (083) **Class: XII** **Max Marks: 15**

Date: **Set: I** **Time: 90 Mins**

PART – I Programming in Python: (**2**)

1. Write an interactive menu driven program to implement a stack. Each node in the stack is storing the information about a Player[Player ID, Player Name, Player Country]. Your program should perform the following operations as per the user's choice **1.*push () 2. pop () 3. display ()*** and 4. ***exit ()***

(Note: take care of Stack is full or Stack is empty)

PART-II SQL **(4)**

Create tables GRADUATE and NEWGR, populate the tables as shown below.

GRADUATE:

SNO	NAME	STIPEND	SUBJECT	AVERAGE	DIVN
1	Karan	400	Physics	68.00	C
2	Divakar	450	Comp Sc	94.00	A
3	Divya	300	Chemistry	86.00	B
4	Sabina	500	Mathematics	84.00	B
5	John	400	Biology	88.00	B

NEWGR:

SNO	SNAME	PGSUB
1	Namita	Medical
2	Surya	Engineering

Answer the following by writing valid SQL queries, based on the tables given above:

i) To display the names of those students who have obtained DIVISION B and sort the relation by their NAME.
ii) To increase the STIPEND by 10% for only those whose AVERAGE is between 86 to 95.
iii) To list the names of those students whose SNO is similar in both the tables.
iv) To show how many students are present in each DIVISION of graduate table.
v) To find the difference between the HIGHEST AVERAGE and LOWEST AVERAGE for those who got DIVISION B.

PART - III PRACTICAL REPORT **(3)**

PART – IV PROJECT **(5)**

PART - V VIVA – VOCE **(1)**

Practical Examination (2021-22)

Sub: Computer Science (083) **Class: XII** **Max Marks: 15**
Date: **Set: II** **Time: 90 Mins**

PART – I Programming in Python: **(2)**

1.Write an interactive menu driven program to implement queue. A node is storing the information about a student [RollNo, SName, Class, Fee]. Your program should contain ***insert (), delete (), display ()*** and ***exit ().***

(Note: take care of Queue is full or Queue is empty)

PART – II SQL

Create the tables COACH and NEWCOACH, populate the table with records as given.

COACH: **(4)**

COACHID	CNAME	AGE	SPORTS	DOA	PAY	SEX
100	KUKREJA	35	KARATE	27/03/2015	1000	M
200	RAVINA	34	CRICKET	20/01/2017	1200	F
300	TARUN	33	BASKET BALL	01/01/2020	2000	M
400	KUSH	41	SWIMMING	13/01/2019	900	M
500	SHAILYA	37	BASKET BALL	19/02/2018	750	F
600	DAVID	32	CRICKET	13/01/2014	850	M

NEWCOACH:

COACHID	GAME	FEES
200	CRICKET	3600
300	POLO	3800

Answer the followings valid SQL commands

i) Display the TOTAL, AVERAGE, LOWEST and HIGHEST pay of all coach.
ii) Display only those sports where number of coaches are less than 2 in each sport.
iii) List the COACH NAME, AGE, DOA, SEX and FEES for only those coaches whose game is cricket in both tables.
iv) Show the details of only FEMALE coach of those whose age is below 40, sorted by their PAY.
v) Display all those whose name starts with ‘S’ or ‘R’ in COACH relation.

PART - III PRACTICAL REPORT **(3)**

PART – IV PROJECT **(5)**

PART - V VIVA – VOCE **(1)**

Practical Examination (2020-21)

Sub: Computer Science (083) **Class: XII** **Max Marks: 15**
Date: 28.03.2021 **Set: III** **Time: 90 Mins**

PART – I Programming in Python: **(2)**

1.Write an interactive menu driven program to implement queue. A node is storing the information about an employee [Employee No, Employee Name, Department, Salary]. Your program should contain ***insert (), delete (), display ()*** and ***exit ().***

(Note: take care of Queue is full or Queue is empty)

PART- II SQL **(4)**

Create a table ITLAB and NEWLAB populate the following **records** as given below

ITLAB

NO	Itemname	Cost	Dop	Warranty
1	Computer	20000	11/DEC/2000	2
2	Printer	7000	11/FEB/2001	1
3	Scanner	5000	12/MAR/2001	1
4	Camera	20000	01/FEB/2001	2
5	Plotter	12000	05/JUN/2004	3
6	Hub	4000	09/OCT/2002	1

NEWLAB

NO	Suppname	Scharge
4	JP group	10000.99
5	Verma and sons	8900.33
6	Delta services	9988.44

Write SQL query for the followings to:

(i) Display those items whose name contains ‘er’ or ‘ra’.
(ii) Display all the details of lab items whose COST is in the range of 10000 to 15000.
(iii) Display only those items whose cost is more than the average cost of the table.
(iv) Add a new column to hold the NO_ITEMS.
(v) Display ITEMNAME, COST and SUPPLIER NAME for only those whose NO is same in both tables.

PART - III PRACTICAL REPORT **(3)**

PART – IV PROJECT **(5)**

PART - V VIVA – VOCE **(1)**

Practical Examination (2021-22)

Sub: Computer Science (083) **Class: XII** **Max Marks: 15**
Date: **Set: IV** **Time: 90 Mins**

PART – I Programming in Python: (**2**)

1. Write an interactive menu driven program to implement a stack. Each node in the stack is storing the information about a Car[Carno, Make, Country]. Your program should perform the following operations as per the user's choice 1.push () 2. pop () 3. display () and 4. exit ()
(Note: take care of Stack is full or Stack is empty)

(Note: Your program should be menu driven, consider new member functions, if required)

PART – II SQL: **(4)**

Create table BESTORDERS and NEWORDERS, add the records as shown below.

BESTORDERS:

ORDERNO	CUSTCODE	DOP	ITEM	QTY	AMOUNT
A010	C003	22-01-2018	Burger	10	100
A002	E003	24-01-2019	Pizza	5	100
A013	D001	24-02-2017	Veg roll	20	50
A004	C003	11-08-2019	Garlic bread	7	45
A005	E003	02-02-2018	Burger	20	250

NEWORDERS:

ORDERNO	SUPPLIER	PRICE
A002	Milton	200.55
A013	Brittania	300.55

Write SQL statements to perform the followings:

i) To create a view VIEW1 that contains the all the details of **CUSTCODE** D001 only.
ii) To count the number items having Burger.
iii) To display the SUPPLIER NAME and CUSTCODE for only those whose ORDERNO is similar.
iv) To count number of items whose AMOUNT is more than the AVERAGE AMOUNT of the table.
v) To increase the size of the ITEM field to 5 units more than the existing width.

PART - III PRACTICAL REPORT **(3)**

PART – IV PROJECT **(5)**

PART - V VIVA – VOCE **(1)**

Practical Examination (2021-22)

Sub: Computer Science (083) **Class: XII** **Max Marks: 15**
Date: **Set: V** **Time: 90 Mins**

PART – I Programming in Python: **(2)**

1.Python / MySQL connectivity

Write a program to implement Python / MySQL connectivity on Bill table and perform the following operations. Bill table consists of fields (Bill No, Customer Name, Customer City and Bill Amount).

1.Add New Record

2.Display the details of given Bill no

3.Display all the Bill details

4.Quit

(Note: Your program should be menu driven, consider new member functions, if required)

PART – II SQL: **(4)**

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Write SQL statements to perform the followings:

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v) To increase the size of the ITEM field to 5 units more than the existing width.

PART - III PRACTICAL REPORT **(3)**

PART – IV PROJECT **(5)**

PART - V VIVA – VOCE **(1)**