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12TH CBSE COMPUTER SCIENCE TEST 2

12th Standard

Computer Science

2 Marks

5 x 2 = 10

- 1) What is median() method?
- 2) What are Positional arguments?
- 3) Evaluate following postfix expression using a stack.
28, 8, 4, /, +
- 4) Differentiate between the primary key and alternate key of a table with the help of an example.
- 5) Write a code to use Parameterized query and prepared statement in Python

3 Marks

5 x 3 = 15

- 6) What will be the status of the following list after the First, Second and Third pass of the bubble sort method used for arranging the following element! in ascending order?
Note: Show the status of all the elements after each pass very clearly underlining the changes.
52,42,-10,60,90,20
- 7) Write a method in Python to find and display the prime number between 2 to N. Pass N as argument to the method.
- 8) Explain Reading CSV files with CSV.
- 9) Write a python program to demonstrate implementation of stack using lists with proper documentation.
- 10) Define the following:
 - (i) Self Join
 - (ii) Non-equi join
 - (iii) Natural join

4 Marks

2 x 4 = 8

- 11) Write a program to sort a list containing 3 digit integers on the basis of one's digit of all the elements use insertion sort. That is if given list is [387,410,285,106] then the sorted list should be [410,285,106,387]
- 12) Consider the table Product with following structure.
P_ID, ProductName, Manufacturer, Price.
Write Python code to increase price of all products by 50.

6 Marks

1 x 6 = 6

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- 13) Consider the following tables STOCK and DEALERS and answer (a) and (b) parts of this question:

Table: STOCK

ITEM NO	ITEM	DCODE	QTY	UNITPRICE	STOCK DATE
5005		102	100	16	31-03-10
5003		102	150	20	01-01-10
5002		101	125	14	14-02-10
5006		101	200	22	01-01-09
5001		102	210	5	19-03-09
5004		102	60	10	12-12-09
5009		103	160	8	23-01-09

Table: DEALERS

DCODE	DNAME
101	RELIABLE STATINONERS
103	CLASSIC PLASTICS
102	CLEAR DEALS

(a) Write SQL commands for the following statements :

(i) To display the details of all Items in the STOCK table in ascending order of StockDate.

(ii) To display ItemNo and Item name of those items from STOCK table whose UnitPrice is more than Rupees 10.

(iii) To display the details of those items whose dealer code (Dcode) is 102 or quantity in STOCK (Qty) is more than 100 from the table Stock.

iv) To display maximum UnitPrice of items for each dealer individually as per Dcode from the table STOCK

(b) Give the output of the following SQL queries:

(i) SELECT COUNT(DISTINCT Dcode) FROM STOCK;

(ii) SELECT Qty, UnitPrice FROM STOCK WHERE ItemNo=5006;

(iii) SELECT Item, Dname FROM STOCK S, DEALERS D WHERE S.Dcode=D.Dcode AND ItemNo =5004;

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