Sample Paper – 2015
Class – XII
# Subject – INFORMATICS PRACTICES - PRACTICAL

TIME : 1Hrs.   **M.M. 30**

Q1. (a). Read the following case study and answer the questions that follow :

The Shop n Store has developed the following data entry screen for its operations. The store offers three different types of membership discount schemes for its regular customers. Platinum members get a discount of 10% on all their purchases, Gold members get 5% and Silver members get 3% discount.
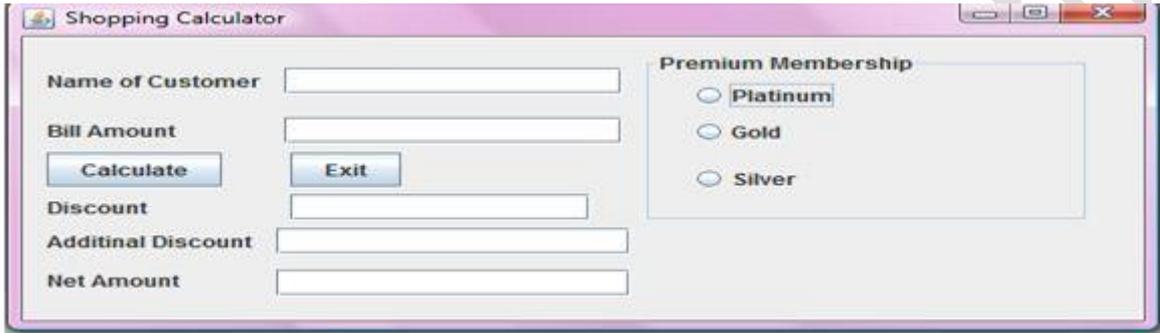
The list of controls for above interface is as follows:

Object Type	Object Name	Description
Text Field	ProducTF QtyTF RateTF AmountTF DiscountTF NetTF	To enter name of the product To enter quantity Sold To enter rate per unit To display total amount as quantity *rate To display the discount amount based on membership type To display net amount as amount-discount
Radio Buttons	PlatinumRB GoldRB SilverRB	To Specify the Member Ship Type
Button	CalcBTN ExitBTN	To Calculate the amount, discount and net amount To Close the Application

(i). Write the code to disable the text fields AmountTF, DiscountTF and NetTF.   [1.0]

(ii). Write the code for CalcBTN to calculate the amount, discount and net amount as per given   [2.5]
descriptions and conditions.

(iii). Write the code for ExitBTN to close the application, but before the application is closed it   [1.5]
should check the net amount and if the net amount > 10,000 the membership of the customer
should be upgraded and displayed. For example, if the customer already has Silver membership
it should be upgraded Gold membership (similarly from gold to platinum) and he informed of
the same using a message box.

Q2   Define a class Book with the following specifications :
                  Data Members of the Book are :
                        BOOK_NO   INTEGER
                        BOOK_TITLE   STRING
                        NO_OF_BOOKS   INTEGER

PROCE	FLOAT(PRICE PER COPY)
TOTAL_COST()	A function to calculate the total cost for number of copies. Member methods of the class book are: (1)

INPUT() Function to read No of Books, Book_title, price.

The following is the screen used to declare class to calculate total cost :

The list of controls for the above form is as follows :

Control Type	Control name	Property Value	
JTextField	JTextField1	txtBNo	
	JTextField2	txtBName	
	JTextField3	txtPrice	
	JTextField4	txtNo	
	JTextField5	txtTotal	
JButton	JButton1	Calculate	price
	JButton2	Exit	

(i). Define a class Book with required specification.   [2.5]

(ii). Write the code for calculate Price buttons click event procedure to operate the class Book's [2.0] method.

(iii). Write the code for Exit Button to exit application.   [0.5]

Q3. (a). Write SQL Commands for (a) to (e) and write the outputs for (f) on the basis of table :[1x10=10]

Table : FURNITURE

NO	ITEM NAME	TYPE	DATEOFSTOCK	PRICE	DISCOUNT
1	White Lotus	Double Bed	2002-02-23	3000	25
2	Pink feathers	Baby Cot	2002-01-29	7000	20
3	Dolphin	Baby Cot	2002-02-19	9500	20
4	Decent	Office Table	2002-02-01	25000	30
5	Comfort zone	Double Bed	2002-02-12	25000	30
6	Donald	Baby cot	2002-02-24	6500	15

7	Royal Finish	Office Table	2002-02-20	18000	30
8	Royal tiger	Sofa	2002-02-22	31000	30
9	Econo sitting	Sofa	2001-12-13	9500	25
10	Eating Paradise	Dinning Table	2002-12-19	11500	25

(a) To show all the information about the Baby cots from the furniture table.

(b) To list the item name which are priced at more than 15000 from the furniture table.

(c) To list item name and type of those items, in which date of stock is before 2002-02-01 from the furniture table in descending order of item name.   (2)

(d) To display item name and date of stock of those items, in which the discount percentage is more than 25 from the furniture table.

(e) To count the number of items, whose TYPE is "Sofa" from the furniture table.

(f) Give the output of following SQL statement :
   (i).   select count (distinct type) from furniture;
   (ii).   Select max(discount) from furniture;
   (iii).   Select avg(discount) from furniture where type="Baby Cot";
   (iv).   Select sum(price) from furniture where dateofstock < '2002-02-12';
   (v).   Select count (*) from furniture;

Q4. Study the following tables Doctor and Salary and write SQL Commands   [1x4=4]

Table : <u>DOCTOR</u>

ID	NAME	DEPT	SEX	EXPERIENCE
101	John	ENT	M	12
104	Smith	ORRHPEDIC	M	5
107	George	CARDIOLOGY	M	10
114	Lara	SKIN	F	3
109	K George	MEDICINE	F	9
105	Johnson	ORRHPEDIC	M	10
117	Lucy	ENT	F	3
111	Bill	MEDICINE	F	12
130	Morphy	ORRHPEDIC	M	15

Table : <u>SALARY</u>

ID	BASIC	ALLOWANCE	CONSULTATION
101	12000	1000	300
104	23000	2300	500
107	32000	4000	500
114	12000	5200	100
109	42000	1700	200
105	18900	1690	300
130	21700	2600	300

(a). Display NAME of all doctors who are in "MEDICINE" having more than 10 years experience and basic more than 10000.

(b). Display the average of all doctors working in "ENT" department using the DOCTOR and where as

salary=basic + allowance

(c). Display the minimum ALLOWANCE of female doctors.

(d). Display the highest consultation fee among all male doctors.

Q5. Write the resulting output of the following :   [0.5 X 6 = 3]
    (a). Select SUBSTR('NetBeans IDE Programmer', 10,3);
    (b). select INSTR(TRIM('   ABS Public School   ')5);
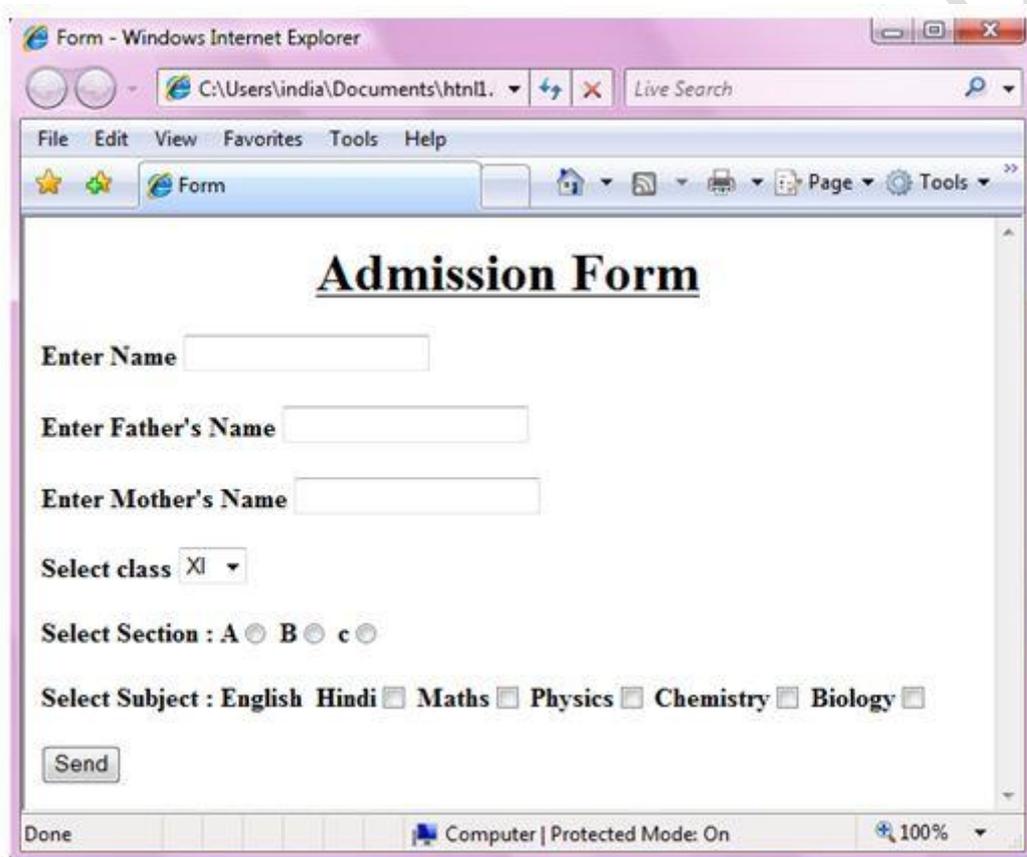   (c). select 200 + SQRT(144);
    (d).select MOD (ROUND (125.60,1) , 5);
    (e). select LEFT('RAMESH SHARMA' , 5);
    (f). select ROUND(1045.439 , 2) + MOD (12.12 , 3)   (3)

Q6). Write the html code to display the following controls :   [3]