

CLASS XII GUESS PAPER INFORMATICS PRACTICES

SET-A

Read The following case study and answer the questions that follow:

The shop a save 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.

Object Type	Object Name
Text Field	ProductTF

Text Field	QtyTF
Text Field	RateTF
Text Field	AmountTF
Text Field	DiscountTF
Text Field	NetTF
Radio Buttons	PlatinumRB
Radio Buttons	GoldRB
Radio Buttons	SilverRB
Button Group	MembershipBG
Button	CalculateBTN
Button	ExitBTN

- (a) Write the Code to disable the text fields AmountTF,DiscountTF And NetTF. (2)
- (b) Write the code for CalcBTN to calculate the amount, discount and net amount as per the given description and conditions (3)
- (c) Write the code to remove the decimal part from the text field NetTF so that the net amount contains only the integer portion in rupees. Where(in which event handler) would you place this code to have its impact? (2)
- (d) Write the code for ExitBTN to close the application, but before the application is closed it should check the net amount and if the net amount >10000 the membership of the customer should be displayed. For example if the customer already has silver membership using a message box. (3)

MySQL

Write MySQL commands for (i) to (iv) and write the outputs for (v) on the basis of table HOSPITAL. (5)

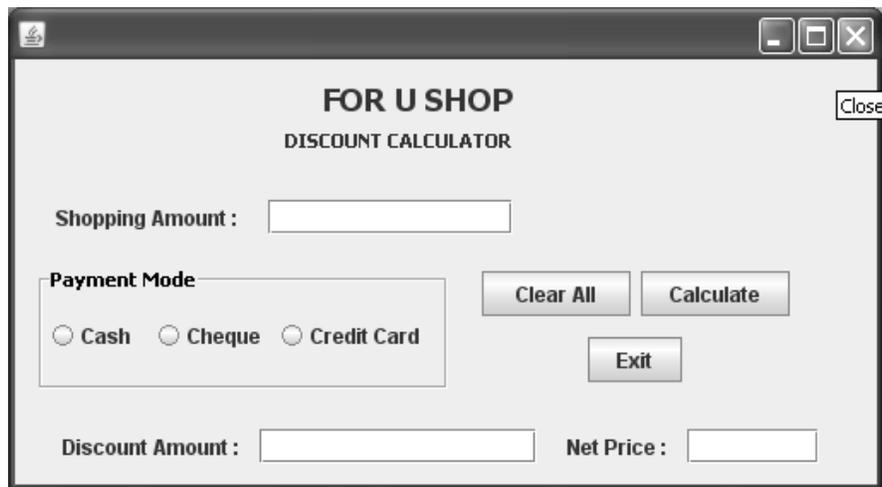
No	Name	Age	Department	Dateofadm	Charges	Gender
1	Pratik	62	Surgery	2011-10-12	300	M
2	Shubham	22	ENT	2011-10-15	250	M
3	Krinjal	32	Orthopedic	2011-10-16	200	F
4	Vipul	12	Surgery	2011-10-18	300	M
5	Nitesh	30	ENT	2011-10-22	250	M
6	Lakshit	16	ENT	2011-10-25	250	M
7	Alpesh	29	Cardiology	2011-10-28	800	M
8	Shruti	45	Nuclear Medicine	2011-10-29	300	F
9	Aishwarya	19	Cardiology	2011-11-1	800	F
10	Neha	23	Surgery	2011-11-2	400	F

- (i) To list the names of female patients who are in ENT department.
- (ii) To list the names of patients with their date of admission in the reverse order of their admission.
- (iii) To display patient's name, Charges, Age for only female patients.
- (iv) To count the number of patients with age < 30.
- (v) (a) Select COUNT(Distinct Charges) from Hospital.
- (b) Select MIN(age) from Hospital where gender ='M';
- (c) Select SUM (charges) from Hospital where department ="ENT";
- (d) Select SUM (charges) from Hospital where dateofadm <= '2011-11-01';

Set-B

(B) Read the following case study and answer the questions that follows :

The FOR U SHOP has computerized its billing. A new bill is generated for each customer. The shop allows three different payment modes. The discount is given based on the payment mode. The following is the data entry screen used at to generate the bill.



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

Object Type	Object Name	Description
Frame	FrmDiscount	The main frame
Text Field	TxtAmt	To input the total Shopping Amount
	TxtDisc	To display Discount Amount
	TxtNet	To display Net Price
Radio Button	OptCash	To select mode of payment as cash
	OptCheque	To select mode of payment as cheque
	OptCredit	To select mode of payment as credit card
Ok Button	CmdCalc	To calculate Discount and Net Price
	CmdClear	To clear all Text Fields
	CmdExit	To exit from the application

- (a) Write the code for the CmdClear Button to clear all the Text Fields 1
- (b) Write the code for formWindowActivated event of FrmDiscount so as to 3

- (i) disable the TxtDisc and the TxtNet Text Fields
- (ii) set default choice in the Radio Button as Cash
- (iii) set the Focus to the TxtAmt Text Fields
- (c) Write the code for the CmdCalc Button to display the Discount Amount and Net Price in the TxtDisc and the TxtNet Text Fields respectively. Note that Net Price is calculated as Shopping Amount – Discount Amount and the discount is calculated based on the credit card and the total shopping amount according to the following table.

5

Credit Card Type	Shopping Amount	Discount
Cash	< 10000	20 %
	>= 10000	25 %
Cheque	< 15000	10 %
	>= 15000	15 %
Credit Card	< 10000	10 %
	>= 10000	12 %

- (e) Write the code for CmdExit Ok button to display a message “Thank You “ and exit out of the application. 1

MySQL

Consider the table Library given below. Write commands in MySql for (i) to (iv) and output for (v) to (vii).

Table : Library

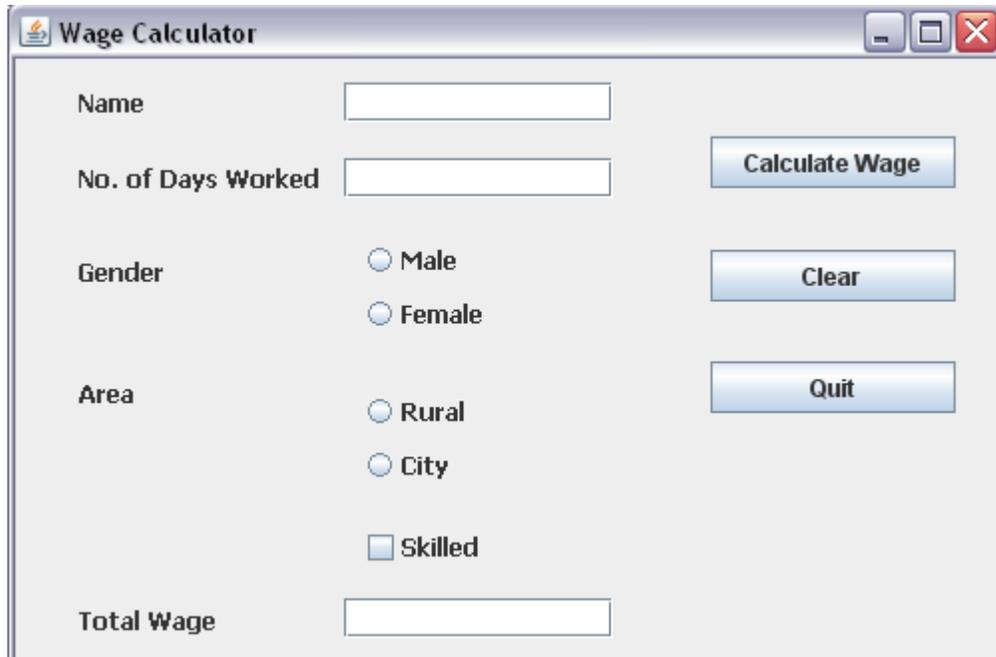
Sr_No	Book_Name	Publishers	Author	Year_of_Publication	Price
1	Basic for beginners	BPB	Raman Prakash	1995-05-19	150
2	Mastering Informatics Practices	McGraw	Mrs Lilli	2010-07-11	270
3	Advance Pascal	Galgotia	Sandip Verma	2005-02-21	380
4	Learn Ms-Office	Student Publication	Reeta Aahuja	2009-09-23	470
5	Network Guide	BPB	Vinay Sainy	2008-08-25	225

6	Mastering C++	Bharti Bhawan	Mrs Lilli	2011-11-18	210
7	Genes and Evolution	McGraw	Dr A P Jha	1995-12-30	450
8	IT Laws	Galgotia	Surendra Sexsena	2008-10-05	600
9	Auditing	Mcgraw	S K Paul	2012-01-07	105
10	Play with IP	Student Publication	Dhruv Adhikari	1999-08-03	110

- (i) To list the Authors whose publishers is Student Publication and price is greater than 350. 1
- (ii) To list the Sr_No, Price, Author in descending order of Price. 1
- (iii) To list the Book_Name which are published before year 2000. 1
- (iv) Display the name of authors whose name ends with "Ili". 1
- (v) Select Distinct Count(Publishers) from library; 1

SET- C

Mr. Madhav works in a construction company. To calculate total wages he has developed the following GUI in NetBeans. [6]



Male and female labourers are respectively paid Rs. 150/- per day and Rs. 170/- per day. Skilled labourers are paid extra at the rate of Rs. 100/- day. Male and female labourers from rural areas are paid 10% less per day.

- I. Write the code to lock the text box.(text box for total wages should not take input) (1)
- II. Write code to do the following-
 - a) When Calculate Wage button is clicked, the total wages is calculated as per the given criteria and displayed in total wage text box. (6)
 - b) When Clear button is clicked, all the text boxes should be cleared and radio button, check box should be deselected. (2)
 - c) Close the application when Quit button is pressed. (1)

MySQL

Write SQL commands for statements (i) to (vi) and give output for SQL queries (vii) to (x) on the basis of the table FAMILY: (5)

No	Name	Female Members	Male Members	Income	Occupation
1	Mishra	3	2	67000	Service
2	Gupta	4	5	150000	Business
3	Khan	6	4	48000	Mixed
4	Chaddha	2	2	125000	Business
5	Yadav	7	4	120000	Mixed
6	Joshi	1	4	114000	Service
7	Maurya	6	3	45000	Farming
8	Rao	5	2	110000	Service

- (i) To select all the information of family whose occupation is service.
- (ii) To list the names of the families where female members are more than 3.
- (iii) To list names of family with income in descending order whose occupation is either service or business and number of male members should be more than 3 .
- (iv) To count the number families whose income is less than 10,000.
- (v) To display family's name ,male member and occupation of business family whose income is more than average income of all the families.

SET-D

Question- Read the following case study carefully and answer the questions that follows –

A School decided to computerized its result making work. The Interface of the application is given below. The maximum marks for First term and Second term is 150 and for Half Yearly 300 and for Annual is 400. The maximum total marks is 1000. A weightage of 2 % should be given if a student is either a NCC cadet or a sports person.

Control	Control Name	Description
Frame	resultFRM	The main form object
Text Fields	futTF	To Enter marks of First Unit Test
	sutTF	To Enter marks of First Unit Test
	hyTF	To Enter marks of Half Yearly
	annualTF	To Enter marks of Annual Test

The grading different streams

The list of control is as follows :

	totalTF	To Display the total marks
	perTF	To Display Percentage
	gradeTF	To Display the total marks
Button	perBTN	To Calculate Total and percentage
	gradeBTN	To calculate Grade
	clearBTN	To clear text boxes
	exitBTN	To Close the application
Check Box	nccCB	To select for Ncc cadet
	sportsCB	To select for Sports person
Radio Button	scienceRB	To select for Science stream
	commerceRB	To select for Science stream

scheme for the is as follows :

Stream	Marks	Grade
Science	> 85	A+
	70 to 85	A
	50 to 69	B
	40 to 49	C
	<40	D
Commerce	> 75	A+
	61 to 75	A
	51 to 60	B
	40 to 50	C
	<40	D

Initially the textfields totalTF, perTF, gradeTF and button gradeBTN should be disabled . **(2)**

- (i) On Clicking perBTN button , the total marks and Percentage should be calculated and displayed in respective textfield. **(2)**
- (ii) On Clicking gradeBTN button. The grade should be checked and displayed in textfield. **(3)**
- (iii) On clicking of clearBTN command button , all textfields and checkboxes should be cleared and radion button for science should be set to default. **(2)**
- (iv) On clicking of exitBTN button, the application should be closed. **(1)**

MySQL

Given the following lab relations: Write SQL command for questions (i) to (v).

Table:Lab

No	Item Name	Cost Per Item	Quantity	Date of Purchase	Warranty	Operational
1	Computer	60000	9	2006-05-21	2	7
2	Printer	15000	3	2007-05-21	4	2
3	Scanner	18000	1	2008-08-29	3	1

4	Camera	21000	2	2006-06-13	1	2
5	Hub	8000	1	2009-06-13	2	1
6	UPS	5000	5	2006-05-21	1	4
7	Plotter	25000	2	2010-01-11	2	2

- (i) To select the Item Name purchased after 2007-10-31. 1
- (ii) To list the ItemName, Which are within the Warranty period till current date. 1
- (iii) To list the ItemName in ascending order of the date of purchase where quantity is more than 3. 1
- (iv) To display ItemName, CostPerItem, and Quantity whose warranty is over. 1
- (v) To count the number of Items whose cost is more than 10000. 1