

Name : \_\_\_\_\_ Roll No \_\_\_\_\_ Section : \_\_\_\_\_ Invigilator Sig. \_\_\_\_\_

## Achievers Home Public School, Haridwar

Half Yearly Examination:2018-19

Subject : **Informatics Practices(065)**

Time allowed: 3Hours

Class : XI<sup>th</sup>

Maximum Marks: 70

### **General Instructions :**

- (i). This question paper consists of 7 questions and divided into three sections.
- (ii). **Section-A** consists of 20 Marks.
- (iii). **Section-B** consists of 20 Marks.
- (iv). **Section-C** consists of 30 Marks.
- (v). Answer the questions after carefully reading the text.

### **Section-A**

#### **Q1. Answer the following questions:**

- a). What are Super Cookies? [2]
- b). What is the significance of a firewall in a computer's security scheme? [2]
- c). What is phishing? [2]
- d). What do you mean by Python programming language? Who discovered Python Programming when and how? [2+1]
- e). What is a computer virus? How can it affect your computer? [2+1]
- f). Define : (a) Cyber Trolls (b). Cyber bullying. [2+2]
- g). What do you mean by compiler and interpreter? [2+2]

### **Section-B**

#### **Q2. Write the following programs :**

- (a). Write a program that accepts any two numbers from the user and calculate the sum. [2]  
(OR)  
Write a program that accepts any two numbers from the user and find their difference.
- (b). Write a program to print area of a circle whose radius is input by the user. [2]
- (c). Write a program that accepts length and breadth from the user and calculate the area of rectangle. [4]
- (d). Write a program that accepts principle, rate of interest and time(in years) form the user and calculate simple interest. [4]

(e). Write a program that accepts length, breadth and height form the user and calculate volume of cuboid. [4]

(OR)

Write a program that accepts length, breadth and height form the user and calculate surface area of cuboid.

(f). Write a program to calculate electricity bill where no of units consumed and rate per unit are entered by the user. [4]

### Section-C

**Q3. Write the SQL command to create the following tables including the given constraints. [2]**

(a). Table : Customer

Column Name	Data type	Size	Constraint
Customer_ID	INT	4	Primary Key Not Null
Name	VARCHAR	20	Not Null
Age	INT	2	
Address	CHAR	20	Default HDR
Purchase_Amount	DOUBLE	8,2	Check greater than 1000

(b). Table : Order [2]

Column Name	Data type	Size	Constraint
Customer_ID	INT	4	Foreign Key Customer (ID)
Date	DATE		
Product_Name	VARCHAR	25	Not Null
Phone_No	INT	10	Unique

- (c). Write a command to describe the structure of the **Customer** table. [1]
- (d). Add one more column in the **Customer** table as Phone\_No as int(10). [1]
- (e). Modify the column Address as VARCHAR(25). [1]
- (f). Drop the column Address. [1]
- (g). Change the name of the column Address to Home Address. [1]
- (h). Delete the table. [1]

**Q4. Given the following tables :**

**[1x5=5]**

**Table : Books**

Book_Id	Book_Name	Author_Name	Publishers	Price	Type	Quantity
C001	Fast Cook	Lata Kapoor	EPB	355	Cookery	5
F001	The Tears	William Hopkins	First Publ.	650	Fiction	20
T001	My First C++	Brain & Brooke	EPB	350	Text	10
T002	C++ Brainworks	A.W.Roosaine	TDH	350	Text	15
F002	Thunderbolts	Anna Roberts	First Publ.	750	Fiction	50

**Table : Book\_Issued**

Book_Id	Quantity_Issued
T001	4
C001	5
F001	2

Write SQL queries for (a) to (e) :

- (a). To list the Book\_Name from books of Text Type and quantity issued is more than 2.
- (b). To display the Book\_Id, Book\_Name and Quantity\_Issued for all the books.
- (c). To display the Book\_Id, Book\_Name and Quantity\_Issued for all the books having price more than 300.
- (d). To display the Book\_Id, Author\_Name and Quantity\_Issued for all the books whose type start with F.
- (e). To display the Author\_Name, Publisher and Quantity\_Issued for all the books in the descending order of Book\_Name.

**Q5. Consider the following table Store. Write SQL commands for the statements (i) to (iv) and give outputs for SQL queries (v) to (vii) [1x7=7]**

**Table : Store**

Item_No	Item	Scode	Qty	Rate	LastBuy
2005	Sharpener Classic	23	60	6	2009-06-31
2003	Ball Pen 0.25	22	50	25	2010-02-01
2002	Gel Pen Premium	21	150	12	2010-02-24
2006	Gel Pen Classic	21	250	20	2009-03-11
2001	Eraser Small	22	220	6	2009-01-19
2004	Eraser Big	22	110	8	2009-12-02
2009	Ball Pen 0.5	21	180	18	2009-11-03

- To display details of all the items in the Store table in ascending order of LastBuy.
- To display Item\_No and Item name of those items from Store table Whose rate is more than 15 rupees.
- To display the details of those items whose Supplier code (Scode) is 22 or Quantity in store (Qty) is more than 110 from the table store.
- To display Minimum Rate of items for each Supplier individually as per Scode from the table Store.
- SELECT COUNT (DISTINCT Scode) FROM Store;
- SELECT Min(Rate) FROM Store;
- SELECT MAX>LastBuy) FROM Store;

**Q6. Find the output of the following questions : [½ x 10 = 5.0]**

- SELECT LENGTH ('INFORMATICS PRACTICES');
- SELECT LEFT ('INFORMATICS', 6);
- SELECT INSTR ('INFORMATICS', 'A');
- SELECT ABS (-3245.78);
- SELECT CEIL(2345.90);
- SELECT FLOOR (2345.90);
- SELECT SQRT (225);

- (h). SELECT MID ('INFORMATICS', 6,5);  
(g). SELECT DAYOFMONTH ('2018-10-25');  
(h). SELECT POWER(3,4);

**Q7. Find the errors in the following and rewrite them after correction made:**

**[1 x 3= 3]**

- (a). UPDATE TABLE CUSTOMER CNAME = 'DAKSH' WHERE CNAME= 'SHYAM';  
(b). DELETE FROM CUSTOMER WHERE CNAME= 1011;  
(c). INSERT INTO CUSTOMER VALUE = (1501, KARTIK NANKANI, BANGALORE, 17000, 2018-10-10);

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