**The City School
North Nazimabad Boys Campus**

**Date: 10-09-2016
Class: 9th
Subject: Computer Science
Teacher: Lubna Tanveer**

Q1:A database, DONATION, was set up to record the information of sponsors of different animals . Part of the database is shown below.



1. Give the number of fields that are in each record. /1
2. State which field you would choose for the primary key. /1
3. The query-by-example grid below selects all buffalos with more than $8. /6



Show what would be output.

1. Complete the query-by-example grid below to select and show the reference numbers and first names of all the sponsors who donate for lions. /3



1. What can be the data types of following fields: /4

NAME \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

ANIMAL \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

SPONSOR\_REF \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

AMOUNT \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Q 2

1. The flowchart below inputs six single digit numbers. The predefined function MOD gives the value of the remainder, for example, Y ← 10 MOD 3 gives the value Y = 1



Complete a trace table for each of the two sets of input data.

Set 1 5, 2, 4, 3, 1, 5

Set 2 3, 2, 1, 0, 7, 3

Trace table set 1 5, 2, 4, 3, 1, 5



1. State the purpose of the flowchart in part (a). /1
2. Identify a problem with this flowchart and explain how to correct it.

Problem: /1

Solution /2

Q3: The flowchart below inputs the weight of a number of parcels in kilograms. Parcels weighing more than 25 kilograms are rejected. A value of –1 stops the input.

 The following information is output: the total weight of the parcels accepted and number of parcels rejected. /4





Q4. Study the following flow chart carefully.



