

## COMPUTER APPLICATIONS

### Paper 2

### (PRACTICAL)

**Writing Time: 2 hours**

**Total Marks: 50**

#### **READ THE FOLLOWING DIRECTIONS CAREFULLY.**

1. **DO NOT** write during the **FIRST FIFTEEN MINUTES**. This time is to be spent reading the questions. After having read over the questions, you will be given **TWO HOURS** to answer all questions.
2. Create a folder on the Desktop with your **INDEX NUMBER** as the **FOLDER NAME** in the computer provided to you by the visiting examiner. Save all your work in the folder.

For example: The folder should look like



010181231234 for a candidate

whose **Index No** is **010181231234**.

3. In this paper, there are **TWO** questions. **BOTH** questions are **COMPULSORY**. The intended marks for each question or its parts are stated in the brackets [ ].
4. Read the directions for each question carefully and save all your answers in your folder.
5. **DO NOT** leave the examination hall before you have made sure that you have answered all the questions.
6. **SAVE YOUR WORK** from time to time to prevent loss of work due to unexpected power failure or hardware/software problem.

## INSTRUCTIONS

**This paper has two questions.**

**All the questions are compulsory.**

**The questions require full use of a computer.**

**Your work must be saved in the computer provided.**

### Question 1

**[35 Marks]**

Sonam Automobiles Pvt. Limited is a company at Phuentsholing. They deal in sale of different types of vehicles. The Management requires a database solution to keep records of the customers and the vehicle sold to them.

- a) Design a database using MS Access and save it as *VehicleSaleRecord*. [1]
- b) Create a table and name it as *CustomerDetails*. [½]
  - i. The table should have following fields:  
*Cust\_ID*, *Cust\_Name*, *Gender*, *Employment\_Status*, *Contact\_No*, with appropriate data types. [2]
  - ii. Assign Primary Key to *Cust\_ID*. [½]
  - iii. Use lookup Column for the field *Employment\_Status* with following options:  
(Civil servant, Private employee, Business, Farmer, Unemployed) [1½]  
Use input mask for *Contact\_No* field (E.g. +975-17112233) [1]
- c) Create another table and name it as *PurchaseDetails*. [½]
  - i. The table should have following fields:  
*Cust\_ID*, *Vehicle\_Type*, *Vehicle\_Cost*, *Accessories\_Bought*, *Accessories\_Cost*, *Date\_of\_Payment* with appropriate data types. [2]
  - ii. Assign Primary key to the appropriate field. [½]
  - iii. Assign a Default Value to the field *Vehicle\_Type* as *Enter Vehicle Type*. [½]
  - iv. Apply validation rule in *Accessories\_Bought* field and it should prompt the message either “Yes” or “No” using validation text. [2]
- d) Establish a relationship between the two tables. [1]
- e) Data entry form:
  - i. Design a form named *VehicleSaleRecordForm* to enter the records for both the tables created above. [2½]
  - ii. Enter at least six records. [2]
  - iii. Create a Combo Box for *Gender* field and there should be two options: Male and Female. [2]
  - iv. Add a suitable title, appropriate background and fonts. [1½]

f) Create the following queries:

- i. To view details of the civil servants who had purchased vehicle, the query should display the following fields:

*Cust\_ID, Cust\_Name, Employment\_Status, Vehicle\_Type*. Name the query as *CivilCustomerQuery*. [2]

- ii. To view customers who had purchased Accessories worth of more than Nu 20,000, the query should display *Cust\_ID, Cust\_Name, Accessories\_Cost*. Name the query as *AccessoriesQuery*. [2]

- iii. To view the male customers who had purchased vehicle on or before 03/01/2016, the query should display the following fields:

*Cust\_ID, Cust\_Name, Gender, Vehicle\_Type, Date\_of\_Payment*. Name the query as *PaymentQuery*. [2]

- iv. To view the total amount each customer had paid for the vehicle, the query should display the following fields: [3]

*Cust\_ID, Cust\_Name, Gender, Vehicle\_Type, Vehicle\_Cost, Accessories\_Cost, Total\_Amount*. Name the query the as *TotalPaymentQuery*.

(Hint:  $Total\_Amount = Vehicle\_Cost + Accessories\_Cost$ )

g) Design a report:

- i. The report should display *Cust\_ID, Cust\_Name, Gender, Employment\_Status, Vehicle\_Type, Accessories\_Bought* and *Total\_Amount* grouped by *Gender*. [2½]

- ii. Use appropriate background colors, layouts, fonts, alignments, title and page number. [2]

- iii. Save it as *VehicleSaleReport*. [½]

## Question 2

[15 Marks]

- a) Using MS PowerPoint, create a slideshow presentation to explain the working of the database that you have created in Question 1. Save your presentation as **Sonam Vehicle Sale Presentation**. [1]
- b) Your presentation should include the following features:
- i. Minimum of six slides of different layout (Slides should not be empty). [2]
  - ii. Suitable design template with proper background color or images. [2]
  - iii. Appropriate fonts (color contrast) and alignment. [2]
  - iv. Relevant WordArt, SmartArt, Clipart and screenshots of your database. [2]
  - v. An action button in the last slide that links to second slide. [1]
  - vi. Appropriate animation and slide transition in logical order. [3]
  - vii. A Hyperlink in the 1<sup>st</sup> slide such that when clicked, opens your database file created in Question 1. [1]
  - viii. A presenter's note for the 4<sup>th</sup> slide. [1]