



UNIVERSITY OF MINES AND TECHNOLOGY, TARKWA
SECOND SEMESTER EXAMINATIONS, MAY 2018

COURSE NO: CE 380
COURSE NAME: PROGRAMMING WITH C#
CLASS: CE III **TIME:** 1 HOUR

Name: _____ Index Number: _____

Read the scenario below carefully and answer the questions that follow.

An organization is in urgent need of a Contact Directory that will keep contact information of its members. The organization currently has four categories of members: **Gold Fields, UMaT, GridCo** and **KNUST** and have set priorities for their members as: High, Medium and Low. The organization is currently using excel sheet in keeping this information and below is a sample of the excel sheet data:

QFace Group Ghana Member Union Contact Directory														
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
First Name	Last Name	Other Name	Group	Priority	DOB	Phone Number	Telephone Number	LocationAddress	ResidentialAddress	Email	Country	City	Sex	
MARY	AMPONSAH		Gold Fields	High	1970-01-01	0549132200		BLESSING INT. SCH. BOX 8, APINAMANG			GHA	APINAMA NG	F	
JENNOT	WACANOU AN TO		UMaT	High	1960-02-02	0546828091		BLESSING INT. SCH. BOX 8, APINAMANG			GHA	APINAMA NG	M	
KWADWO	SACKEY		Gold Fields	Medium	1981-04-27	0249012395					GHA	APINAMA NG	M	
asamoah	FORSON		GridCo	Low	1981-04-27	0249012395					GHA	APINAMA NG	M	
COMFORT	ADWOA		GridCo	Low	1966-12-23	0244444444					GHA	APINAMA NG	F	
SAKYIBEA	COMFORT		KNUST	High	1966-12-23	0244444444			APINAMANG		GHA	APINAMA NG	F	
MARY	ANFO	AKUA	UMaT	Medium	1998-03-18	0553120347			N40		GHA	APINAMA NG	F	
COMFORT	DEDE	YAA	Gold Fields	High	1972-04-28	0544837205					GHA	APINAMA NG	F	

Hint: The database should have the following tables listed below with their entities:

- I. **Member:** MemberId(PK), FirstName, LastName, OtherName, DateOfBirth, PhoneNumber, LocationAddress, ResidentialAddress, Email, Country, City, Sex, GroupId(FK) and PriorityId(FK)
- II. **Group:** GroupId(PK), Name

III. **Priority:** PriorityId(PK), Name

Note: Good organization of code and design of Forms will attract extra marks. **(5 marks)**

1. Use Microsoft Visual Studio with C# and MSSQL Database to design a **contact directory application** for the organization to help them Add **(10 marks)**, Edit **(5 marks)**, Delete **(5 marks)** and Search Contact **(10 marks)**.
2. Add the following requirement;
 - a. The FirstName, LastName, GroupId and ProrityId must be required when adding or editing contact **(2 marks)**.
 - b. Show a MessageBox when a contact is added, edited or deleted to alert the user **(3 Marks)**.