EASTERN UNIVERSITY, SRI LANKA

FACULTY OF SCIENCE

First Year Second Semester Examination in Science -2021/2022 (Sep/Oct, 2024)

EN1052 - INTRODUCTION TO COMPUTING - II
(PRACTICAL)

Answer All Questions   *Time allowed: 2 hours*

INSTRUCTIONS:
- Create a Folder on the Desktop and name it with your ***index number*** (e.g. **PS####** or **BS####**). Save all your work files of all the questions into this folder. If the answers were not found in the above-said folder, they will not be marked.
- Make sure that the examiners copy all your work files before leaving the examination centre.
- All questions carry equal marks.

Q1) Create the following worksheet using MS Excel and save it as "**Examination.xlsx**" into the folder created as per the instructions.

Confirmation Examination									
Employee ID	Department	Medium	ICT Marks	English Marks	Final Marks	Grade	Salary	Allowance	Gross Salary
FIN/202/T			85	75			36000		
MKT/203/T			75	65			43000		
ADT/204/S			52	80			28000		
FIN/205/E			74	90			27500		
ADT/206/S			34	45			28000		
MKT/207/S			68	65			40000		
MKT/208/E			25	43			42000		
FIN/209/T			70	65			35000		

a) Fill the column "Department" using a suitable function according to the following conditions. The first three letters of the given Employee ID represent the Department. If the "Employee ID" starts with "FIN"- Finance, "MKT"- Marketing and "ADT"- Audit.

b) Fill the column "Medium" using a suitable function according to the following conditions. The last letter of the given Employee ID represents Medium. If the "Employee ID" ends with "T"- Tamil, "S"- Sinhala and "E"- English.

c) Calculate the Final Marks of each Employee by using the following equation.
Final Marks=60% of ICT Marks + 40% of English Marks

d) Use the following criteria to fill the "Grade" column using a suitable function.

Final Marks	Grade
Final Marks>=70	Good
70>Final Marks>=40	Satisfactory
Final Marks<40	Fail

e) Use the following criteria to fill the "Allowance" column using suitable function.

Final Marks	Allowance
Final Marks>=70	15% of the Salary
70>Final Marks>=40	8% of the Salary
Final Marks<40	No allowance

f) Calculate the Gross Salary for each Employee by using the following equation.

Gross Salary=Salary + Allowance

g) Create a Column Chart that shows the Gross Salary by each Employee's Employee ID and insert "Salary Details" as the title of the chart.

Q2) Create a blank database using MS Access and save it as **"Hotel.accdb"** into the folder created as per the instructions.

a) Create the table **Guest** with the following fields and data type. Set "GuestID" as the primary key.

Field Name	Data Type
GuestID	Short Text
GuestName	Short Text
District	Lookup Wizard (Colombo, Batticaloa, Kandy)
Gender	Lookup Wizard (Male, Female)
Email	Short Text

b) Insert the following records to the table **Guest**.

GuestID	GuestName	District	Gender	Email
G601	Amila	Colombo	Male	amilap@gmail.com
G602	Anura	Batticaloa	Female	anu123@gmail.com
G603	David	Colombo	Male	dd26@yahoo.com
G604	Geetha	Batticaloa	Female	geeth@gmail.com
G605	Mohamed	Kandy	Male	mhmd@yahoo.com
G606	Mohan	Batticaloa	Male	mohan87@gmail.com
G607	Rahul	Batticaloa	Male	rahu99@yahoo.com
G608	Rajan	Colombo	Male	raj@gmail.com

c) Create the table **Reservation** with the following fields and data type. Set "ReservationID" as the primary key.

Field Name	Data Type
ReservationID	Short Text
GuestID	Short Text
RoomType	Lookup Wizard (Standard, Deluxe)
BedType	Lookup Wizard (Double, Triple)
NoOfRooms	Number

d) Insert the following records to the table **Reservation**.

ReservationID	GuestID	RoomType	BedType	NoOfRooms
RV21	G601	Standard	Triple	6
RV22	G602	Deluxe	Double	2
RV23	G603	Deluxe	Double	4
RV24	G604	Standard	Double	5
RV25	G606	Standard	Triple	3

e) Create Query to get the following results:

1) Display GuestID, GuestName and Email of Male Guests and save it as "Q1".

2) Display ReservationID, RoomType, BedType and NoOfRooms of Reservations and save it as "Q2".

3) Display GuestName, District and RoomType of Guests who reserved more than 4 rooms and save it as "Q3".

4) Display GuestName and Gender of Guests who are from Colombo and reserved Deluxe Room and save it as "Q4".

5) Display GuestName, Email, BedType and NoOfRooms of Reservations which have Guest name start with "A" and save it as "Q5".

6) Display GuestID and GuestName of Guests who reserved Double BedType and save it as "Q6".

f) Create a Report to display GuestName, District and Email and save it as "Guest Details".