K. J. SOMAIYA INSTITUTE OF MANAGEMENT STUDIES AND RESEARCH

Program: PGDM(Communications) Tri-I (Batch 2018-2020)

Subject: IT for Management
End-Term Examination

Maximum Marks: 50   Duration:3hrs   Date :
28/09/2018

Notes:

1. Each EXCEL question should be answered in a ***new-work-sheet*** of the **same** ***WORKBOOK*** which should be Saved with File Name in the following format only RollNo_Excel in the given folder.

2. The Access files should be saved as Rollno_Access in the given folder.

Solve any 3 (Three) from Q. 1 to Q. 4

Question 1 (10 Marks)

[A] Share prices.xlsx contains the portfolio information of various companies.

1) Add a column "**Value after sell**" and calculate the value of share after selling if it is sold at "**Sell at**" price. Display the values in currency format.
2) Add a Column "Loss/Profit". If the value after sell is greater than value display "Profit" else display "Loss"
3) Highlight the company name according to the following rules.
   a. price/share >=150   - Blue
   b. 150 < price/share>=100   -Pink
   c. 100<Price/Share>=50   -Yellow
   d. Price/Share<50   -Red and Bold
4) Plot graph to identify the company with high share values.
5) Identify the duplicate client names.

Question 2 (10 Marks – 5 marks each)

[A]. Olive oil can be purchased according to the price schedule given in **olive.xlsx.** Write the formula to calculate the cost according to the given schedule. Use Goal seek to find the number of gallons if the cost is ₹ 20000. Create a data table for the given values of prices in the worksheet.

[B] Consider the problem of diet optimization. There are four different types of food: Brownies, Ice Cream, Cola, and Cheese Cake. The nutrition values and cost per unit are given in **nutrition.xlsx**. The objective is to find a minimum-cost diet that contains at least 500 calories, at least 6 grams of chocolate, at least 10 grams of sugar, and at least 8

Page **1** of **4**

grams of fat. [Use Solver.xlsx]

Question 3 (10 Marks)

[A] **Production.xlsx** contains a production model. The company produces three products, and each product requires a different number of hours and a different amount of materials to produce. The company management is trying to predict the total profit, but in an uncertain situation when the hourly labor cost and material costs will be different. The company has identified three scenarios listed in the following Table.

Scenario	Hourly Labor Cost	Material Cost
Best Case	34	60
Worst Case	37	65
Most Likely	35	62

The company managers must be prepared for the worst case, however, and they will optimize their performance controlling the scenario under the Best Case Scenario. Create the scenario summary.

Question 4 (10 Marks – 5 marks each)

[A] Given excel worksheet contains the invoice data of stationary items. The manager needs to quickly have the respective detail of the bill when the invoice number and the required detail name is entered. If he enters "12347" and "Total", it will return 99.8. **[Use file: Lookup.xlsx]**

[B] The file **pivot.xlsx** holds revenue and expenses details. You need to generate following information from the same using Pivot Tables and Charts.

1. What are the average revenue in each subdivision?
2. Identify which group segment shows the highest revenue?
3. Find the month wise count of services.
4. Show the month wise revenue from various subdivisions.
5. Identify the month with highest expense.

Question 5 (20 Marks)

1. Create database for pizza delivery
2. Create Following tables

Table: Customer		
Customer_id	Text	Should start with 'C'
Address	Text	
Payment_method	Text	
Cust_Name	Text	Should not be NULL
Contact_No	Text	Should not exceed 10 digits
Mail_id	Text	Should be in email format(abc@xyz.com)
Date_first_order	Date	

Table: Employee		
Emp_id	Text	Should start with 'E'
Emp_Name	Text	Should not be Null
Emp_Address	Text	
Emp_contact_no	Text	Should not be Null Should not exceed 10 digits

Table: Orders		
Order_Id	Text	Should start with 'O'
Cust_Id	Text	
Taken_empid	Text	Should not exceed 6 digits
Delivered_empid	Text	
Datetime_ordertaken	Date	
Datetime_orderdeliver	Date	
Delivery_status	Test	Enter yes or no from the dropdown list
Vehicle_id	Text	

Table: Vehicle		
Vehicle_id	Text	Should start with 'V'
Vehicle_type	Text	
License_no	Text	Should not exceed 8 digits

Table: Pizza		
Order_id	Text	Should start with 'R'
Pizza_Name	Text	
Toppings	Text	
Number_pizza	Number	Should be >0
Price	Currency	

3. Create Relationships

4. Enter 5 rows in each table.
5. Create following queries

   1. Display the details of employee when the employee id is entered by user using runtime.
   2. Retrieve the details of the customers who opts for cash on delivery.
   3. Display the orders which are delivered.
   4. Display the vehicle details for vehicle id "V1001".
   5. Retrieve the topping types when the order id is entered during runtime.
   6. Display the customer details whose orders are not delivered
   7. Get the order details with delivery status where the number of pizza ordered is more than two.
   8. Increase the price of the pizzas by 5%.
   9. Delete the details of an employee with id 'E1005'
   10. Create a report to display the order details of a customer when the order id is entered during runtime.

---------------------------End of Paper--------------------------