



MTS CERTIFICATION

International ICT Examinations Council

A member of BTC, US Based Company of African Diaspora Marketplace, Finalist ADM II

P.O. Box: 652 New York, NY 10027, USA

Website: <http://www.mtscertification.com> **Email:** mtscert@gmail.com

MISCERT0012- DEC 2012

MTS II-ERP MIS ENG

ERP DATABASE II

3 Hours

MTS Certified ERP MIS Engineers

ERP Database Administration II

December 2012

3 Hours

Instructions

Answer **FOUR** questions only

You are reminded of the importance of clarity of expression and orderly presentation of the codes.

You can use any of the following SQL Engines/Applications:

- Oracle SQL
- MS SQL Server
- PowerEngine
- MySQL
- PL/SQL Developer

NB: Make sure you state the type of engine or applications you are using to interpret/compile your SQL Scripts.

Question 1

Century Industries Ltd has implemented the Overall Equipment Efficiency since 2001 to manage the production floor performance. You have been employed by the company to manage the database and to produce the OEE Reports.

MC_ID	ProductName	GoodNos	Target	Reject	Operating time	Down Time
01_389	Okro Basket	6900	8700	200	23	1
02_400	Awaraso Basket	2450	4000	300	22	2
03_800	Odo Basket	2000	2400	120	24	0
04_170	8 Lit Adanfopa	6700	5000	400	23	1

Write a procedure that will produce the following reports:

1. Quality Efficiency Report
2. Machine Efficiency Report
3. Time Efficiency Report
4. Overall Equipment Efficiency Report

Question 2

The daily hours worked by employees of ZOC Industries are tabulated below:

Table: EmployeesHoursWorked

EmployeeID	Hours_Worked	Hourly_Pay (ghc)	WorkDate
JCC1234	12	10.5	10-JAN-2012
JCC3421	13	11.2	10-JAN-2012
JCC5432	8	12.7	10-JAN-2012

1. Write SQL code to calculate the:
 - a. **Normal Pay** and,
 - b. **Normal Overtime Pay**

Question 3

You have been employed by JNC Company Ltd. The first project assigned to you was to develop **Off Day Overtime Pay** (Saturday Overtime).

Write a procedure with Oracle PL/SQL Developer that will produce the report

Note: Every employee has his/her Off Day which may not be necessarily Saturday.

Question 4

The Managing Director of Melcom Ltd has implemented Time Attendance System (TAS) to record both attendance and absenteeism. However TAS can only records attendance and employees list.

Employees

EmpID	EmpName	DailyRate
JCC089	Smith Bill	90
JCC098	Houde Clement	67
JCC767	Aditi Roger	45
JCC453	Goumegou Yvette	56

Attendance

AttDate	EmpID	EmpName
10-Mar-2012	JCC089	Smith Bill
10-Mar-2012	JCC767	Houde Clement

Write a procedure to load the employees absent daily (10-Mar-2012) and store the total absenteeism daily. The two reports should look like this:

Absenteism

Absentdate	EmpID
10-Mar-2012	JCC098
10-Mar-2012	JCC453

Total_Daily_Absent

Absentdate	Total
10-Mar-2012	2

Question 5

Write short notes on the following:

1. PL/SQL Variables
2. For..Loop
3. While ...Loop
4. Explicit Cursor
5. Implicit Cursor

Illustrate your answers with codes

Question 6

After your MTS Certification, you were employed by TIC Supermarket. The Managing Director gave you the table below to generate ERP Reports . The Table is displayed below:

Transactions

TransDate	Journal	Partner	PurchasesAmt	OutPayment	SalesAmt	IncPayment
20/02/12	Purchases	Melcom	9000	6000	0	0
21/02/12	Sales	BTC	0	0	3000	2000
23/02/12	Sales	TAC	0	0	5000	3000
25/02/12	Purchases	TAIYU	20000	0	0	0
26/02/12	Purchases	BTC	6000	5000	0	0

Write a procedure to calculate the:

1. Gross Profit (SalesAmt-PurchasesAmt)
2. Customers Account (Debtors) (SalesAmt – IncPayment)
3. Suppliers Account(Creditors) (PurchasesAmt – OutPayment)
4. Total Purchases, Total Outgoing Payments, Total Sales, Total Incoming Payments