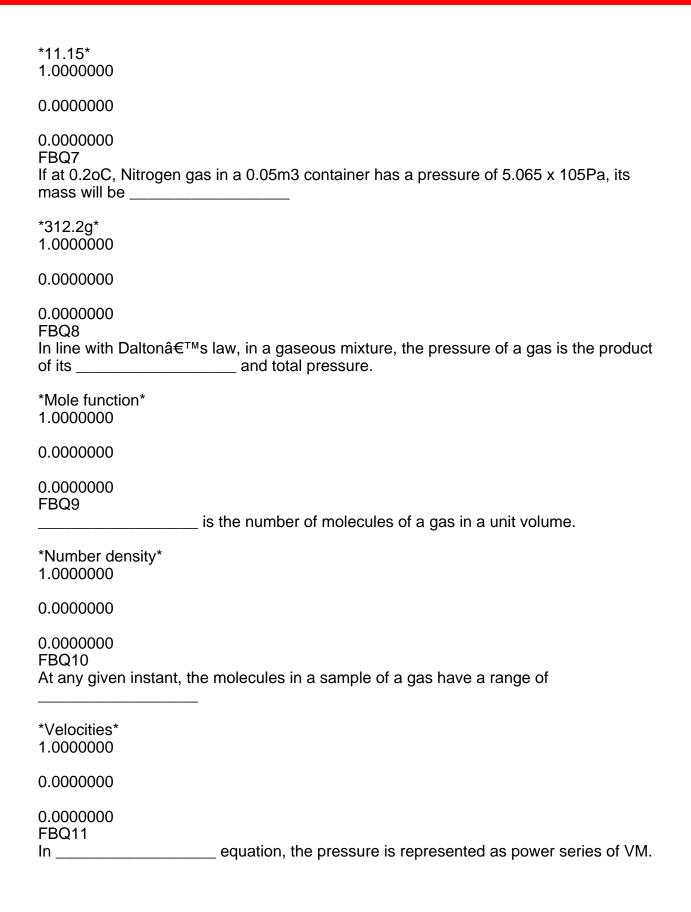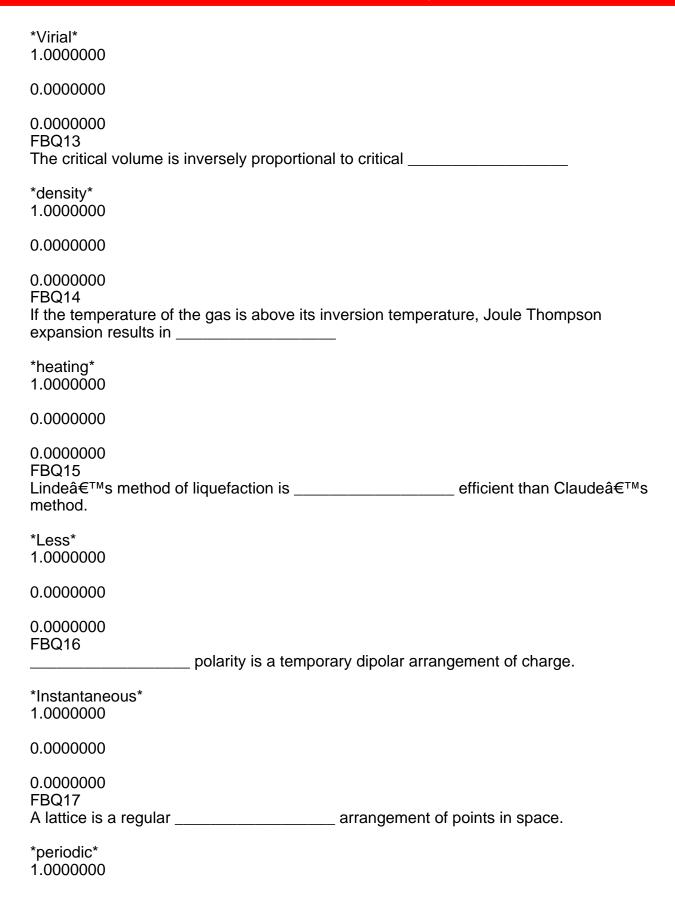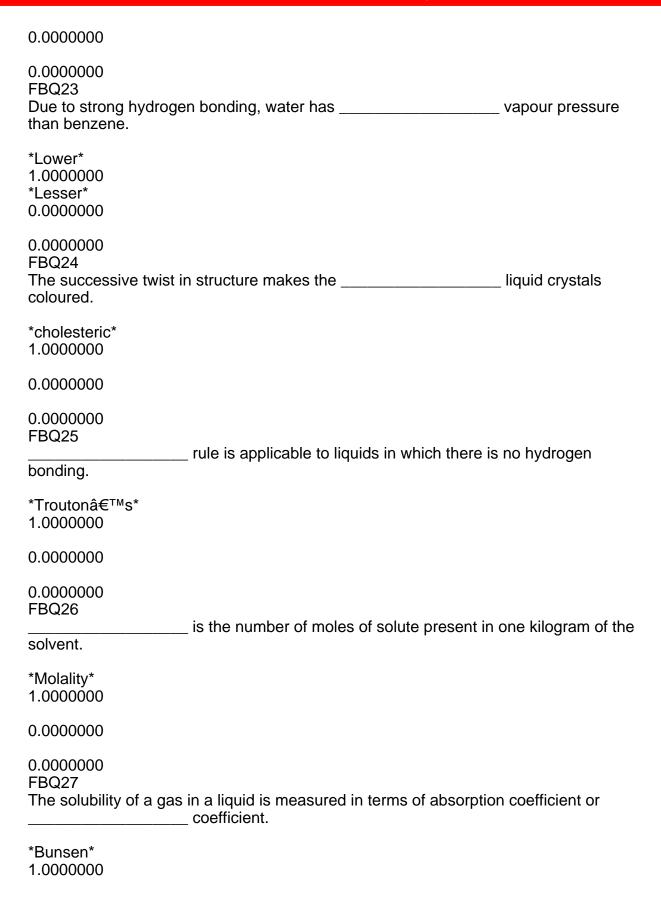Default for CHM103
The default category for questions shared in context 'CHM103'.
Fill in the Blank (FBQs)
FBQ1
ML-1T-2 is the dimensional formula for _____ .

pressure
1.0000000

0.0000000
FBQ2
Logarithmic functions are _____ quantities and hence have no units.

dimensionless
1.0000000

0.0000000

0.0000000
FBQ3
_____ are often used in weighing substances.

Balance
1.0000000

0.0000000

0.0000000
FBQ4
It is always advisable to _____ data for effective management.

Tabulate
1.0000000

0.0000000

0.0000000
FBQ5
In application, only _____ gases obey Boyle's and Charles laws.

Ideal
1.0000000

0.0000000

0.0000000
FBQ6
At 0.2oC, Nitrogen gas in a 0.05m3 container has a pressure of 5.065 x 105Pa, the number of moles is _____

11.15
1.0000000

0.0000000

0.0000000
FBQ7
If at 0.2oC, Nitrogen gas in a 0.05m3 container has a pressure of 5.065 x 105Pa, its mass will be _____

312.2g
1.0000000

0.0000000

0.0000000
FBQ8
In line with Dalton€™s law, in a gaseous mixture, the pressure of a gas is the product of its _____ and total pressure.

Mole function
1.0000000

0.0000000

0.0000000
FBQ9
_____ is the number of molecules of a gas in a unit volume.

Number density
1.0000000

0.0000000

0.0000000
FBQ10
At any given instant, the molecules in a sample of a gas have a range of _____

Velocities
1.0000000

0.0000000

0.0000000
FBQ11
In _____ equation, the pressure is represented as power series of VM.

Virial
1.0000000

0.0000000

0.0000000
FBQ13
The critical volume is inversely proportional to critical _____

density
1.0000000

0.0000000

0.0000000
FBQ14
If the temperature of the gas is above its inversion temperature, Joule Thompson expansion results in _____

heating
1.0000000

0.0000000

0.0000000
FBQ15
Linde's method of liquefaction is _____ efficient than Claude's method.

Less
1.0000000

0.0000000

0.0000000
FBQ16
_____ polarity is a temporary dipolar arrangement of charge.

Instantaneous
1.0000000

0.0000000

0.0000000
FBQ17
A lattice is a regular _____ arrangement of points in space.
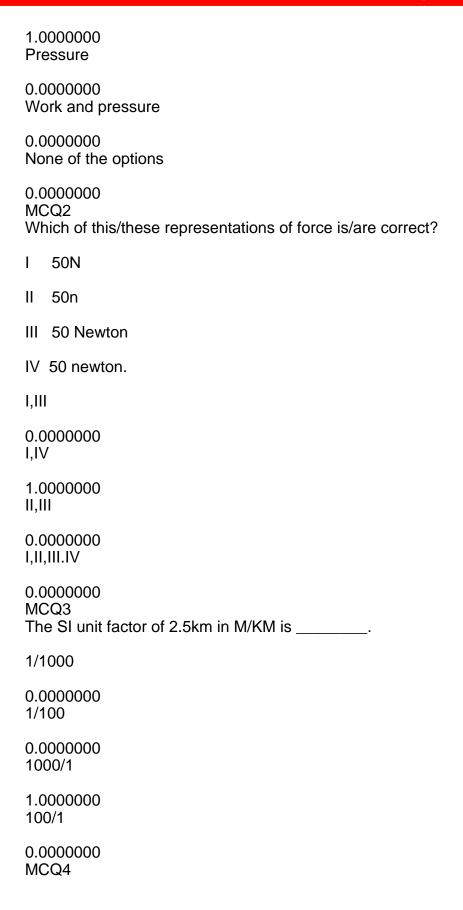
periodic
1.0000000

0.0000000

0.0000000
FBQ18
Every _____ is identical in orientation, arrangement and composition.

basis
1.0000000

0.0000000

0.0000000
FBQ19
Metallic solids can be seen as having _____ bonds between adjacent atoms.

covalent
1.0000000

0.0000000

0.0000000
FBQ20
The bond model is the same as the _____ bond approach.

Valence
1.0000000

0.0000000

0.0000000
FBQ21
The bcc crystal can be defined in terms of two _____ positions in the cell.

unique
1.0000000

0.0000000

0.0000000
FBQ22
When a germanium is doped with gallium, the gallium (impurity) is called the _____

Acceptor
1.0000000

0.0000000

0.0000000
FBQ23
Due to strong hydrogen bonding, water has _____ vapour pressure than benzene.

Lower
1.0000000
Lesser
0.0000000

0.0000000
FBQ24
The successive twist in structure makes the _____ liquid crystals coloured.

cholesteric
1.0000000

0.0000000

0.0000000
FBQ25
_____ rule is applicable to liquids in which there is no hydrogen bonding.

Trouton's
1.0000000

0.0000000

0.0000000
FBQ26
_____ is the number of moles of solute present in one kilogram of the solvent.

Molality
1.0000000

0.0000000

0.0000000
FBQ27
The solubility of a gas in a liquid is measured in terms of absorption coefficient or _____ coefficient.

Bunsen
1.0000000

0.0000000

0.0000000
FBQ28
The concentration of gases that pollute the atmosphere are expressed in
_____

Parts per million
1.0000000
ppm
1.0000000

0.0000000
FBQ29
_____ , ideal solutions are those in which volume change is zero.

Thermodynamically
1.0000000

0.0000000

0.0000000
FBQ30
A solution is said to show _____ deviation from Raoult's law, when
the vapour pressure of the solution is lower than that of an ideal solution of the same
concentration.

negative
1.0000000

0.0000000

0.0000000
FBQ31
According to _____ , the mole fraction of a more volatile component in
an ideal solution is more in the vapour phase than in the liquid phase.

Konownloff
1.0000000

0.0000000

0.0000000
FBQ32
Fractional distillation is a _____ process

Continuous
1.0000000

0.0000000

0.0000000
FBQ33
Another name for critical solution temperature is _____ temperature.

Consolute
1.0000000

0.0000000

0.0000000
FBQ34
Differential _____ is employed in the static method of lowering vapour pressure.

Manometer
1.0000000

0.0000000

0.0000000
FBQ35
In _____ , Gibbs deduced a simple relationship among the number of phases in equilibrium.

1876
1.0000000

0.0000000

0.0000000
FBQ12
The volume of gas that liquefies at critical pressure and temperature is the critical volume. True or False?

False
1.0000000

0.0000000

0.0000000
Multiple Choice Questions (MCQs)
MCQ1
ML2T-2 is the dimensional formula for _____.

Work

1.0000000
Pressure

0.0000000
Work and pressure

0.0000000
None of the options

0.0000000
MCQ2
Which of this/these representations of force is/are correct?

I   50N

II   50n

III 50 Newton

IV 50 newton.

I,III

0.0000000
I,IV

1.0000000
II,III

0.0000000
I,II,III.IV

0.0000000
MCQ3
The SI unit factor of 2.5km in M/KM is _____.

1/1000

0.0000000
1/100

0.0000000
1000/1

1.0000000
100/1

0.0000000
MCQ4

Steam bath is employed in which of the separation methods?

sublimation

0.0000000
crystallisation

1.0000000
Precipitation

0.0000000
filtration

0.0000000
MCQ5
Which of the following is false about gases?

They expand at high temperature

0.0000000
They contract at low temperature

0.0000000
They expand indefinitely above certain critical temperature

1.0000000
They compress indefinitely above certain critical temperature

0.0000000
MCQ6
Which of these have definite volume?

Solids

0.0000000
Solids and liquids

1.0000000
Liquids

0.0000000
Liquid and gas

0.0000000
MCQ7
Which of the following is false?

Gas pressure can vary inversely with its volume

0.0000000
The pressure can vary directly with its temperature

0.0000000
The combined gas laws can be derived

0.0000000
Ideals gases do not obey laws exactly for all conditions of temperature and pressure

1.0000000
MCQ8
If a fixed mass of gas is transferred from a 50cm3 container to a 150cm3 container, then its pressure will be

Tripled

0.0000000
One third

1.0000000
constant

0.0000000
None of the options

0.0000000
MCQ9
Charles law is not linked with which of the following?

PâˇžT

0.0000000
VâˇžT

0.0000000
Absolute temperature

0.0000000
Real gas

1.0000000
MCQ10
One of the following has no contribution to the kinetic theory?

James Clark

0.0000000
James Bernoulli

1.0000000
August Krong

0.0000000
Ludwig Boltman

0.0000000
MCQ11
Gaseous diffusion method can be used to separate _____.

Isotopes

1.0000000
Precipitate

0.0000000
Sublimates

0.0000000
Volumes

0.0000000
MCQ12
Considering CO, HCl and NH3 at 400K, which conclusion is true regarding their average kinetic energies?

HClËƒCOËƒNH3

0.0000000
COËƒHClËƒ NH3

0.0000000
NH3 = CO = HCl

1.0000000
NH3 Ëƒ COËƒHCl

0.0000000
MCQ13
Gases behave ideally at _____

I   Low pressure

II   High pressure

III   High temperature

IV Low temperature.

I and IV

0.0000000
II and IV

0.0000000
I and III

1.0000000
II and III

0.0000000
MCQ14
All the following are true of the density of a liquid except _____.

Increases with temperature

1.0000000
Decreases with temperature

0.0000000
Its equal with that of vapour at critical temperature

0.0000000
Its mean value can be plotted against temperature

0.0000000
MCQ15
One of these is not a refrigerant.

Ammonia

0.0000000
Dichloromethane

1.0000000
Freon

0.0000000
dichlorodifluoromethane

0.0000000
MCQ16
Vander waals forces includes the following except _____.

Dipole-dipole interactions

0.0000000
Induced dipole interactions

1.0000000
Dispersion forces

0.0000000
London forces

0.0000000
MCQ17
The under-listed can be linked to dispersion interactions except _____.

Low liquefaction temperature

0.0000000
Liquefaction of non polar molecules like methane

0.0000000
Liquefaction of most polar molecules

1.0000000
Liquefaction of noble gases

0.0000000
MCQ18
The effect of attractive and repulsive interactions on the energy of a system can be understood by plotting _____ against _____.

r,v

0.0000000
v,r

1.0000000
m,v

0.0000000
v,m

0.0000000
MCQ19
The basic shape of a unit cell is described by the _____.

All of the options

0.0000000
Parallel piped

1.0000000
Cell edge lengths

0.0000000
Angles between axes

0.0000000
MCQ20
From the relationships among the axis angles and the edge length, there are _____ crystal systems only.

5

0.0000000
6

0.0000000
7

1.0000000
8

0.0000000
MCQ21
The density of crystal depends on _____.

I   Mass of atoms

II   Structure of atoms

III   Number of atoms

IV Volume of the unit cell.

I,II,III

0.0000000
I,IV

0.0000000
I,III,IV

1.0000000
II,III,IV

0.0000000
MCQ22
NaCl is composed of _____ interpenetrating _____ lattices.

Two, bcc

0.0000000
Four, fcc

0.0000000
Two, fcc

1.0000000
Four, bcc

0.0000000
MCQ23
Polonium metal is an example of ___ structure.

Single cubic

1.0000000
Face-centered cubic

0.0000000
Body-centered cubic

0.0000000
Hexagonal closed packed

0.0000000
MCQ24
Which of the following is not inversely related to temperature?

Semi-conductor resistance

0.0000000
Surface tension

0.0000000
Viscosity

0.0000000
Conductivity of n-type semi-conductor

1.0000000
MCQ25
Viscosity of liquids depends on the following except _____.

Temperature

0.0000000
Molecular arrangement

0.0000000

Types of bond

0.0000000
Surface tension

1.0000000
MCQ26
Which of these has the least vapour pressure?

Mercury

1.0000000
Ethanol

0.0000000
Water

0.0000000
Benzene

0.0000000
MCQ27
Zinc amalgam is a solution of _____

Solid-solid

0.0000000
Solid-liquid

1.0000000
Liquid-liquid

0.0000000
Solid-gas

0.0000000
MCQ28
The solubility of gas in liquid is directly related to ____.

Temperature

0.0000000
Pressure

1.0000000
Nature of gas or solvent

0.0000000
Henry's law

0.0000000
MCQ29
The ratio of the number of moles of a solute to the total number of moles of the solute and the solvent in solution is _____.

Normality

0.0000000
Mole fraction

1.0000000
Molality

0.0000000
Percentage mole

0.0000000
MCQ30
According to Roult's, when a non volatile solute is dissolved in a solvent, the vapor pressure of the solute_____.

Decreases

0.0000000
Increases

0.0000000
Is the same with the solvent

0.0000000
None of the options

1.0000000
MCQ31
If x, y, and z are solutions with high vapor, low vapor and atmospheric pressure respectively, if equal amount of heat is supplied to x, y and z, at which order will they boil?

z, y, x

0.0000000
Z, x, y

0.0000000
X, z, y

1.0000000
X, z, y

0.0000000
MCQ32
Which of these processes is not found in fractional distillation?

Condensation

0.0000000
Vaporization

0.0000000
Re-fractionating

1.0000000
Re-vaporization

0.0000000
MCQ33
Which of these liquid pairs shows both the lower and upper critical solution temperature?

Water and nicotine

1.0000000
Water and phenol

0.0000000
Water and diethylamine

0.0000000
Aniline and hexane

0.0000000
MCQ34
A system of totally immiscible liquids has/have how many phase{s}?

One

0.0000000
Two

0.0000000
Several

0.0000000
Three

1.0000000
MCQ35

Phase equilibria containing ice, water and its vapour is a _____ component system.

Three

0.0000000
One

1.0000000
Two

0.0000000
Four

0.0000000
23/11/2019, 11:41 - Seniorman: Thanks
23/11/2019, 11:41 - Seniorman: Phy102

Cit202?
23/11/2019, 11:42 - New TMA Agent Martins: <Media omitted>
23/11/2019, 11:42 - New TMA Agent Martins: <Media omitted>
23/11/2019, 11:42 - New TMA Agent Martins: <Media omitted>
23/11/2019, 11:42 - New TMA Agent Martins: <Media omitted>
23/11/2019, 11:42 - New TMA Agent Martins: <Media omitted>
23/11/2019, 11:42 - New TMA Agent Martins: <Media omitted>
23/11/2019, 11:42 - New TMA Agent Martins: <Media omitted>
23/11/2019, 11:42 - New TMA Agent Martins: <Media omitted>
23/11/2019, 11:51 - Seniorman: This 11:30 is wonderful
23/11/2019, 11:51 - Seniorman: Thanks
23/11/2019, 12:11 - New TMA Agent Martins: Abi
23/11/2019, 12:11 - New TMA Agent Martins: Happy weekend
23/11/2019, 12:11 - New TMA Agent Martins: 2:30 may not be same
23/11/2019, 12:16 - Seniorman: Ye
23/11/2019, 12:17 - Seniorman: All the best my brother
23/11/2019, 14:53 - New TMA Agent Martins: Default for CIT208
The default category for questions shared in context 'CIT208'.
Fill in the Blank (FBQs)
FBQ1
The specific technologies of information technology are computer and data _____

Communication
1.0000000

0.0000000
FBQ2
The study of information-systems originated as a sub-discipline of _____ science, in an attempt to understand and rationalize the management of technology within an organisation

Computer
1.0000000

0.0000000

0.0000000
FBQ3
Generally, data is tagged by the use of the _____ code

XML
1.0000000

0.0000000
FBQ4
The SQL SELECT statement is used to extract _____ from the database

Data
1.0000000

0.0000000
FBQ5
Database constraints are defined over a _____

Schema
1.0000000

0.0000000
FBQ6
The acronym SQL represents _____ Query Language

Structured
1.0000000

0.0000000
FBQ7
SQL is used to access and manipulate a _____

Database
1.0000000

0.0000000
FBQ8
MIS stands for_____ Information Systems
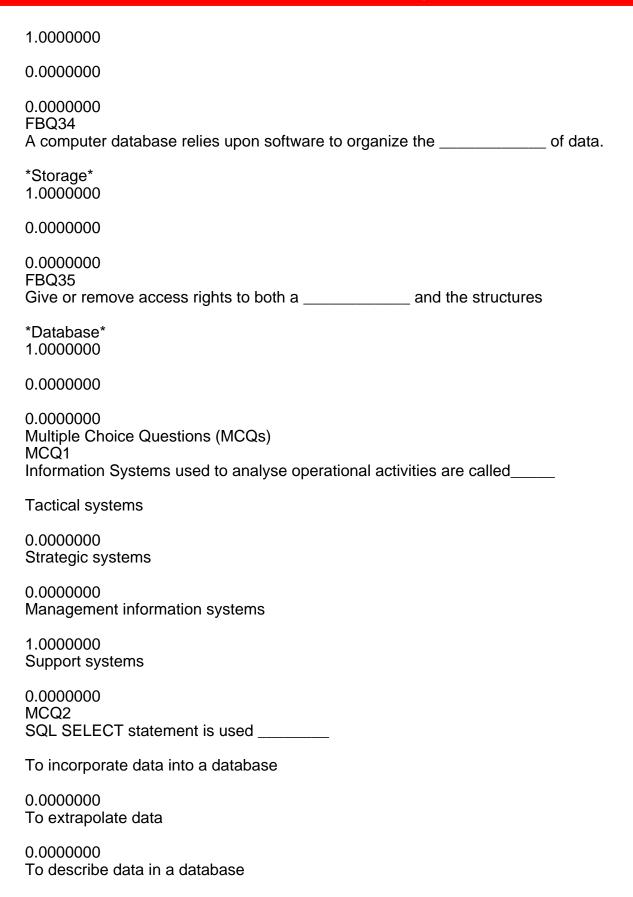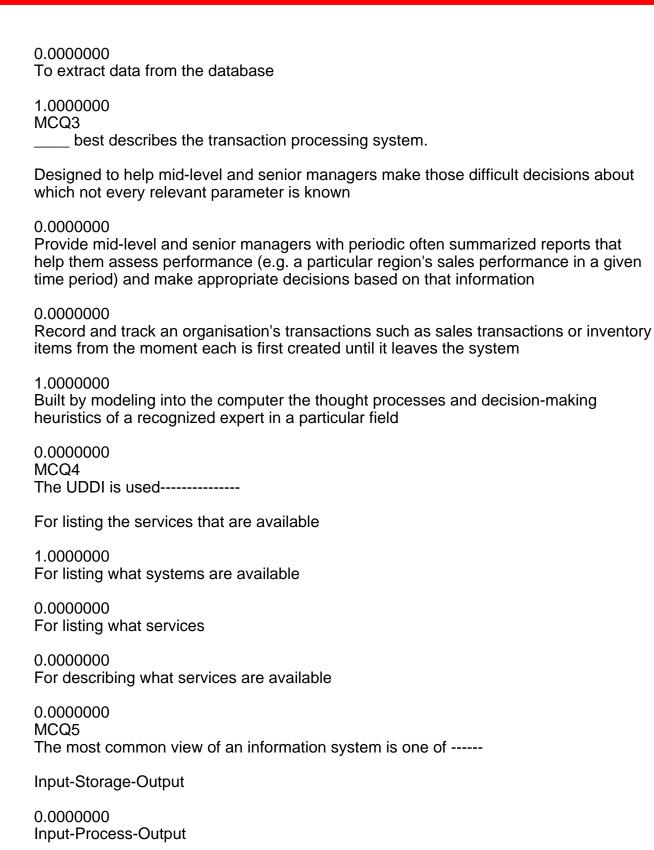
Management
1.0000000

0.0000000
FBQ9

A Database _____ normally contains one or more tables

Table
1.0000000

0.0000000
FBQ10
A Decide _____ Is used to view the structure of a database table

Clause
1.0000000

0.0000000
FBQ11
Sharing data is one of the two most common forms of interaction in a _____ model

Conceptual
1.0000000

0.0000000
FBQ12
The relational algebra is a non-procedure _____ language

Query
1.0000000

0.0000000
FBQ13
A _____ value is a value that is unavailable

null
1.0000000

0.0000000
FBQ14
Entities are simply described as _____

Concepts
1.0000000

0.0000000
FBQ15
IS stands for_____ System

*Information *
1.0000000

0.0000000

FBQ16
DDL is_____ Definition Language

Data
1.0000000

0.0000000

0.0000000
FBQ17
SQL statements are basically divided into _____

Four
1.0000000
4
1.0000000
FBQ18
The _____ model is explicitly chosen to be independent of implementation
Details

Conceptual
1.0000000

0.0000000
FBQ19
The changes made by the DML statements are managed by _____ control

Transaction
1.0000000

0.0000000

0.0000000
FBQ20
The _____ type specifies what type of data the column can hold

Data
1.0000000

0.0000000
FBQ21
The clause is used to _____ records

filter
1.0000000

0.0000000
FBQ22
With the WHERE clause, the LIKE operator Searches for a _____

Pattern
1.0000000

0.0000000
FBQ23
The basic storage structure of a Relational Database Model is a _____

Table
1.0000000

0.0000000
FBQ24
Alternative Names can be ascribed to database objects by using _____

Synonyms
1.0000000

0.0000000
FBQ25
A _____ model represents 'concepts' and relationships between them

Conceptual
1.0000000

0.0000000

0.0000000
FBQ26
A _____ is an association between two or more entities

Relationship
1.0000000

0.0000000

0.0000000
FBQ27
XML documents are made up of _____ units called entities

Storage
1.0000000

0.0000000

0.0000000
FBQ28
Database constraints can be defined over a _____

Schema
1.0000000

0.0000000

0.0000000
FBQ29
The _____ statement is used to remove records and rows in a table

Delete
1.0000000

0.0000000

0.0000000
FBQ30
The AND --- operator displays a _____ if both the first condition and the second condition is true

Record
1.0000000

0.0000000

0.0000000
FBQ31
Generally, a transaction _____ system records and tracks an organisation's operations

Processing
1.0000000

0.0000000

0.0000000
FBQ32
A decomposition of a relation schema R consists of Replacing the _____ schema

Relation
1.0000000

0.0000000

0.0000000
FBQ33
_____ and track an organization's transactions such as sales transactions

Record

1.0000000

0.0000000

0.0000000
FBQ34
A computer database relies upon software to organize the _____ of data.

Storage
1.0000000

0.0000000

0.0000000
FBQ35
Give or remove access rights to both a _____ and the structures

Database
1.0000000

0.0000000

0.0000000
Multiple Choice Questions (MCQs)
MCQ1
Information Systems used to analyse operational activities are called_____

Tactical systems

0.0000000
Strategic systems

0.0000000
Management information systems

1.0000000
Support systems

0.0000000
MCQ2
SQL SELECT statement is used _____

To incorporate data into a database

0.0000000
To extrapolate data

0.0000000
To describe data in a database

0.0000000
To extract data from the database

1.0000000
MCQ3
____ best describes the transaction processing system.

Designed to help mid-level and senior managers make those difficult decisions about which not every relevant parameter is known

0.0000000
Provide mid-level and senior managers with periodic often summarized reports that help them assess performance (e.g. a particular region's sales performance in a given time period) and make appropriate decisions based on that information

0.0000000
Record and track an organisation's transactions such as sales transactions or inventory items from the moment each is first created until it leaves the system

1.0000000
Built by modeling into the computer the thought processes and decision-making heuristics of a recognized expert in a particular field

0.0000000
MCQ4
The UDDI is used---------------

For listing the services that are available

1.0000000
For listing what systems are available

0.0000000
For listing what services

0.0000000
For describing what services are available

0.0000000
MCQ5
The most common view of an information system is one of ------

Input-Storage-Output

0.0000000
Input-Process-Output

1.0000000

Input-Output-Process

0.0000000
Input-Process-Storage

0.0000000
MCQ6
Management reporting system is commonly referred to as -------

MIS

1.0000000
Management interchange system

0.0000000
Management advocate system

0.0000000
Management system

0.0000000
MCQ7
The SQL statement ____ is used to modify data in a database

Save

0.0000000
Insert

0.0000000
Update

1.0000000
Save As

0.0000000
MCQ8
The SQL ---- statement is used to extract data from a database

EXTRACT

0.0000000
SELECT

1.0000000
GET

0.0000000
OPEN

0.0000000
MCQ9
What does SQL stand for ?

Structured Question Language

0.0000000
Structured Query Language

1.0000000
Strong Question Language

0.0000000
Strong Question Land

0.0000000
MCQ10
A type of decision support system that is geared primarily toward high-level senior managers is-----

The management information system (MIS)

0.0000000
The Executive Information System (EIS)

1.0000000
The Expert System (ES)

0.0000000
The Transaction Processing System (TPS)

0.0000000
MCQ11
Which system helps to arrive at a decision?

ES

1.0000000
TPS

0.0000000
MIS

0.0000000
DSS

0.0000000
MCQ12

The Ordinarily, database constraints are defined over a ___

Postgre

0.0000000
Queue

0.0000000
Schema

1.0000000
Row

0.0000000
MCQ13
The relational ------- is a non-procedure query language

Protocol

0.0000000
File

0.0000000
Table

0.0000000
Algebra

1.0000000
MCQ14
Can SQL statements be entered on one or many lines?

NO

0.0000000
YES

1.0000000
NOT SURE

0.0000000
None of the options

0.0000000
MCQ15
SQL --- are not case sensitive

Cases

0.0000000
case inclusive

0.0000000
statements

1.0000000
sensitivities

0.0000000
MCQ16
Expert system can make decision?

TRUE

0.0000000
FALSE

1.0000000
Partly

0.0000000
All of the options

0.0000000
MCQ17
A value that is unavailable is described a --------

Set

0.0000000
Float

0.0000000
Matrix

0.0000000
Null

1.0000000
MCQ18
In information systems, the ----- is used to make Projection, selection and joining

DECIDE clause

0.0000000
SQL statement

0.0000000

WHERE clause

0.0000000
SELECT statement

1.0000000
MCQ19
Transaction Control is used to ---------

Manage the changes made by the DML statements

1.0000000
Manage the changes made by the SQL statements

0.0000000
Manage the changes made by the DDL statements

0.0000000
Manage the changes made by the DHL statements

0.0000000
MCQ20
DCL is specifically used to----

Only give access rights to both a database and the structures within

0.0000000
Give or remove access rights to both a database and the structures within

1.0000000
Only remove access rights to both a database and the structures within

0.0000000
Give or remove access rights to only a database

0.0000000
MCQ21
What do you understand by a conceptual model?

A conceptual model represents relationships

0.0000000
A conceptual model represents 'concepts' (entities) and relationships between them

1.0000000
A conceptual model represents 'concepts' (entities) and indices

0.0000000
A conceptual model represents 'concepts' (entities)

0.0000000
MCQ22
DML is used to

Arrange data from the database

0.0000000
Retrieve data from the database

1.0000000
Merge data from the database

0.0000000
Manage data from the database

0.0000000
MCQ23
One of the basic categories of SQL statements is the ___

DCC

0.0000000
DC

1.0000000
DCM

0.0000000
DMC

0.0000000
MCQ24
DDL is mainly used to _____

Change and remove data structures from tables

1.0000000
Change and remove data structures from databases

0.0000000
Change and remove data from tables

0.0000000
Change and remove data structures from rows

0.0000000
MCQ25
Normally, the Web service -------

Describes a standardized way of integrating Web-based applications using the LPM

0.0000000
Describes a standardized way of integrating Web-based applications using the XLM

0.0000000
Describes a standardized way of integrating Web-based applications using the LMX

0.0000000
Describes a standardized way of integrating Web-based applications using the XML

1.0000000
MCQ26
In information systems, changes made by the DML statements are managed by --------------- control

Database

0.0000000
System

0.0000000
Transaction

1.0000000
Database

0.0000000
MCQ27
XML is the acronym for _____

Extensible Marking Language

0.0000000
Extensible Markup Language

1.0000000
Extensible Markup Logistic

0.0000000
X Markup Language

0.0000000
MCQ28
JDBC stands for

Java Database Connectivity

1.0000000
Java Database Connection

0.0000000
Java Data management Connectivity

0.0000000
Java Data Connection

0.0000000
MCQ29
We use the following SELECT statement to select all the columns from the "Persons" table

SELECT ** FROM Persons

0.0000000
SELECT DISTINCT column_name(s) FROM table_name

1.0000000
SELECT * Persons

0.0000000
SELECT FROM * Persons

0.0000000
MCQ30
A computer database relies upon software to organize the storage of data. This software is known as a---

Database management system

1.0000000
Database system

0.0000000
Database management

0.0000000
Management system

0.0000000
MCQ31
For numeric values, the correct statement is given as __

SELECT * FROM Persons WHERE Year=â€□1975â€□

0.0000000
SELECT * FROM Persons WHERE Year='1995â€□

0.0000000
SELECT * FROM Persons WHERE Year='1955'

0.0000000
SELECT * FROM Persons WHERE Year=1965

1.0000000
MCQ32
SQL SELECT DISTINCT Syntax can be written as _____

SELECT DISTINCT column_name(s) FROM table_name

1.0000000
SELECT DISTINCT table_name(s) FROM column_name

0.0000000
SELECT column_name(s) FROM table_name DISTINCT

0.0000000
SELECT DISTINCT column_name(s) FROM table_address

0.0000000
MCQ33
SQL SELECT Syntax:SELECT column_name(s) FROM---

Table _address

0.0000000
Table _format

0.0000000
table _name

1.0000000
table _data

0.0000000
MCQ34
WSDL is used for -----

Describing the services available

1.0000000
Connecting the services available

0.0000000
Depositing the services available

0.0000000
Providing the services available

0.0000000
MCQ35
SQL comprises of _____

DML and DDL

1.0000000
DCL and DIL

0.0000000
DDL and DCL

0.0000000
DML and DC

0.0000000