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.

1.0000000	
0.000000	
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 1.000000	
0.000000	
0.0000000 FBQ18 Every is identical in orientation, arrangement and composition.	
basis 1.0000000	
0.000000	
0.0000000 FBQ19 Metallic solids can be seen as having bonds between adjace atoms.	nt
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 i the cell.	n
unique 1.0000000	
0.0000000	
0.0000000 FBQ22	

——————————————————————————————————————
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 FBQ25rule 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

```
_ , Gibbs deduced a simple relationship among the number of
In _
phases in equilibrium.
*1876*
1.0000000
0.0000000
0.000000
FBQ12
The volume of gas that liquefies at critical pressure and temperature is the
critical volume. True or False?
*False*
1.0000000
0.000000
0.000000
Multiple Choice Questions (MCQs)
ML2T-2 is the dimensional formula for _____.
Work
1.0000000
Pressure
0.0000000
Work and pressure
0.0000000
None of the options
0.000000
MCQ2
Which of this/these representations of force is/are correct?
Ι
      50N
ΙI
      50n
III
      50 Newton
IV 50 newton.
I,III
0.000000
I,IV
1.0000000
II, III
0.000000
I, II, III. IV
0.000000
MCQ3
The SI unit factor of 2.5km in M/KM is _____.
1/1000
```

FBQ35

```
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
0.000000
crystallisation
1.0000000
Precipitation
0.000000
filtration
0.000000
MC<sub>0</sub>5
Which of the following is false about gases?
They expand at high temperature
0.0000000
They contract at low temperature
0.000000
They expand indefinitely above certain critical temperature
They compress indefinitely above certain critical temperature
0.000000
Which of these have definite volume?
Solids
0.000000
Solids and liquids
1.0000000
Liquids
0.0000000
Liquid and gas
0.0000000
MCO7
Which of the following is false?
Gas pressure can vary inversely with its volume
0.000000
The pressure can vary directly with its temperature
```

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 0.000000 One third 1.0000000 constant 0.000000 None of the options 0.000000 MCQ9 Charles law is not linked with which of the following? P∞T 0.0000000 V∞T 0.0000000 Absolute temperature 0.000000 Real gas 1.0000000 MCQ10 One of the following has no contribution to the kinetic theory? James Clark 0.000000 James Bernoulli 1.0000000 August Krong 0.000000 Ludwig Boltman 0.000000 MCQ11 Gaseous diffusion method can be used to separate _____. **Isotopes** 1.0000000 Precipitate 0.000000

Sublimates

```
Volumes
0.0000000
MC012
Considering CO, HCl and NH3 at 400K, which conclusion is true regarding their
average kinetic energies?
HCl>CO>NH3
0.0000000
CO>HCl> NH3
0.000000
NH3 = CO = HCl
1.0000000
NH3 > CO>HCl
0.000000
MCQ13
Gases behave ideally at ____
Ι
      Low pressure
      High pressure
ΙI
III
      High temperature
IV Low temperature.
I and IV
0.0000000
II and IV
0.000000
I and III
1.0000000
II and III
0.000000
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
0.000000
Its mean value can be plotted against temperature
0.000000
MCQ15
One of these is not a refrigerant.
Ammonia
```

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
0.000000 v,m
0.0000000 MCQ19 The basic shape of a unit cell is described by the
All of the options
0.0000000 Parallel piped

```
Cell edge lengths
0.000000
Angles between axes
0.0000000
MC020
From the relationships among the axis angles and the edge length, there are
____ crystal systems only.
5
0.000000
6
0.0000000
1.0000000
0.000000
MCQ21
The density of crystal depends on _____.
Ι
      Mass of atoms
ΙI
      Structure of atoms
III
      Number of atoms
IV Volume of the unit cell.
I, II, III
0.000000
I,IV
0.000000
I, III, IV
1.0000000
II, III, IV
0.000000
MCQ22
NaCl is composed of _____ interpenetrating ____ lattices.
Two, bcc
0.000000
Four, fcc
0.000000
Two, fcc
1.0000000
Four, bcc
0.000000
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
0.000000
MCQ28
The solubility of gas in liquid is directly related to _____.
Temperature
0.000000
Pressure
1.0000000
Nature of gas or solvent
0.0000000
Henry's law
0.000000
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
0.000000
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
0.000000
```

Z, x, y

```
0.0000000
X, z, y
1.0000000
X, z, y
0.000000
MCQ32
Which of these processes is not found in fractional distillation?
Condensation
0.000000
Vaporization
0.000000
Re-fractionating
1.0000000
Re-vaporization
0.000000
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
0.000000
MCQ34
A system of totally immiscible liquids has/have how many phase{s}?
0ne
0.000000
Two
0.000000
Several
0.0000000
Three
1.0000000
MCQ35
Phase equilibria containing ice, water and its vapour is a ____ component
system.
Three
0.000000
0ne
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 (FBOs)
FB01
The specific technologies of information technology are computer and data
*Communication*
1.0000000
0.000000
FB02
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
0.000000
0.000000
Generally, data is tagged by the use of the _____ code
*XML*
1.0000000
0.0000000
FB04
The SQL SELECT statement is used to extract _____ from the database
*Data*
1.0000000
0.0000000
FB05
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 theschema
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 MCO₂ SQL SELECT statement is used _____ To incorporate data into a database 0.0000000 To extrapolate data 0.000000 To describe data in a database 0.000000 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 Built by modeling into the computer the thought processes and decision-making heuristics of a recognized expert in a particular field 0.000000 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 For describing what services are available 0.0000000 MC05 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
0.000000
MCQ6
Management reporting system is commonly referred to as ------
MIS
1.0000000
Management interchange system
0.000000
Management advocate system
0.0000000
Management system
0.000000
MCQ7
The SQL statement ___ is used to modify data in a database
Save
0.0000000
Insert
0.0000000
Update
1.0000000
Save As
0.000000
MCQ8
The SQL ---- statement is used to extract data from a database
EXTRACT
0.000000
SELECT
1.0000000
GET
0.000000
OPEN
0.000000
MCQ9
What does SQL stand for ?
Structured Question Language
0.0000000
Structured Query Language
1.0000000
Strong Question Language
0.0000000
Strong Question Land
```

```
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)
0.000000
The Transaction Processing System (TPS)
0.000000
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
0.000000
Queue
0.000000
Schema
1.0000000
Row
0.0000000
MCQ13
The relational ----- is a non-procedure query language
Protocol
0.000000
File
0.0000000
Table
0.000000
Algebra
1.0000000
MCQ14
```

Can SQL statements be entered on one or many lines?

```
NO
0.0000000
YES
1.0000000
NOT SURE
0.000000
None of the options
0.000000
MCQ15
SQL --- are not case sensitive
Cases
0.0000000
case inclusive
0.000000
statements
1.0000000
sensitivities
0.0000000
MCQ16
Expert system can make decision?
TRUE
0.000000
FALSE
1.0000000
Partly
0.0000000
All of the options
0.000000
MCQ17
A value that is unavailable is described a ------
Set
0.000000
Float
0.0000000
Matrix
0.0000000
Null
1.0000000
MCQ18
In information systems, the ---- is used to make Projection, selection and
joining
```

DECIDE clause

```
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
0.000000
Manage the changes made by the DHL statements
0.000000
MC020
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
0.000000
MC021
What do you understand by a conceptual model?
A conceptual model represents relationships
0.000000
A conceptual model represents 'concepts' (entities) and relationships between
them
1.0000000
A conceptual model represents 'concepts' (entities) and indices
0.000000
A conceptual model represents 'concepts' (entities)
0.000000
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
0.000000
MCQ23
One of the basic categories of SQL statements is the ____
DCC
0.000000
DC
1.0000000
DCM
0.000000
DMC
0.000000
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
0.000000
Change and remove data structures from rows
0.000000
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
0.000000
Describes a standardized way of integrating Web-based applications using the LMX
0.000000
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
0.000000
System
0.000000
```

Transaction

1.0000000 Database 0.0000000 MC027 XML is the acronym for ____ Extensible Marking Language 0.0000000 Extensible Markup Language 1.0000000 Extensible Markup Logistic 0.000000 X Markup Language 0.000000 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

0.000000

Management system

```
0.0000000
MCQ31
For numeric values, the correct statement is given as ___
SELECT * FROM Persons WHERE Year="1975"
0.0000000
SELECT * FROM Persons WHERE Year='1995"
0.0000000
SELECT * FROM Persons WHERE Year='1955'
0.000000
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
0.000000
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
0.000000
Table _format
0.000000
table _name
1.0000000
table _data
0.0000000
MCQ34
WSDL is used for -----
Describing the services available
1.0000000
Connecting the services available
0.000000
Depositing the services available
0.000000
Providing the services available
0.000000
MCQ35
```

SQL comprises of ____

DML and DDL

1.0000000 DCL and DIL

0.0000000 DDL and DCL

0.0000000 DML and DC