

Telangana State Council Higher Education

Notations :

- 1.Options shown in **green** color and with  icon are correct.
- 2.Options shown in **red** color and with  icon are incorrect.

Subject Name :	Chemical Engineering
Creation Date :	2024-06-12 13:32:58
Duration :	120
Total Marks :	120
Display Marks:	Yes
Share Answer Key With Delivery Engine :	Yes
Actual Answer Key :	Yes
Change Font Color :	No
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Change Theme :	No
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Show Reports :	No
Show Progress Bar :	No

Chemical Engineering

Group Number :	1
Group Id :	38382340
Group Maximum Duration :	0
Group Minimum Duration :	120
Show Attended Group? :	No
Edit Attended Group? :	No
Break time :	0
Group Marks :	120

Mathematics

Section Id :	383823111
Section Number :	1
Section type :	Online
Mandatory or Optional :	Mandatory
Number of Questions :	10
Number of Questions to be attempted :	10

Section Marks : 10
Maximum Instruction Time : 0
Sub-Section Number : 1
Sub-Section Id : 383823111
Question Shuffling Allowed : Yes

Question Number : 1 Question Id : 3838235641 Question Type : MCQ Option Shuffling : Yes
Display Question Number : Yes

Correct Marks : 1 Wrong Marks : 0

If the characteristic polynomial of the matrix $A_{3 \times 3}$ is given by

$f(\lambda) = \lambda^3 - 10\lambda^2 + 27\lambda - 18$ then trace of A and determinant of A respectively are

Options :

1. ✓ 10 and 18
2. ✗ 10 and -18
3. ✗ -10 and 18
4. ✗ -10 and -18

Question Number : 2 Question Id : 3838235642 Question Type : MCQ Option Shuffling : Yes
Display Question Number : Yes

Correct Marks : 1 Wrong Marks : 0

$$\begin{vmatrix} \log e^{2020} & \log e^{2021} & \log e^{2022} \\ \log e^{2021} & \log e^{2022} & \log e^{2023} \\ \log e^{2022} & \log e^{2023} & \log e^{2024} \end{vmatrix} =$$

Options :

1. ✗ 2020
2. ✓ 0
3. ✗ 2024
4. ✗ 1

Question Number : 3 Question Id : 3838235643 Question Type : MCQ Option Shuffling : Yes
Display Question Number : Yes

Correct Marks : 1 Wrong Marks : 0

The value of $\int_1^2 \int_0^{y/2} y \, dx dy =$

Options :

1. ✖ $\frac{1}{6}$

2. ✖ $\frac{3}{5}$

3. ✖ $\frac{2}{7}$

4. ✔ $\frac{7}{6}$

Question Number : 4 Question Id : 3838235644 Question Type : MCQ Option Shuffling : Yes
Display Question Number : Yes

Correct Marks : 1 Wrong Marks : 0

The divergence of the vector field $yz^2i - zx^2k$ at $(-2, 0, 1)$ is

Options :

1. ✖ -3

2. ✖ 4

3. ✔ -4

4. ✖ 3

Question Number : 5 Question Id : 3838235645 Question Type : MCQ Option Shuffling : Yes
Display Question Number : Yes

Correct Marks : 1 Wrong Marks : 0

The particular integral of $\frac{d^3y}{dx^3} + y = \cos(2x-1)$ is

Options :

1. ✖ $\frac{1}{65}(\cos 2x - 8 \sin 2x)$

2. ✖

$$\frac{1}{65}(\cos(2x-1) + 8\sin(2x-1))$$

3. ✖ $\frac{1}{65}(\cos 2x + 8\sin 2x)$

4. ✔ $\frac{1}{65}(\cos(2x-1) - 8\sin(2x-1))$

Question Number : 6 Question Id : 3838235646 Question Type : MCQ Option Shuffling : Yes
Display Question Number : Yes

Correct Marks : 1 Wrong Marks : 0

$L\{te^{3t} \sin 2t\}$ is

Options :

1. ✔ $\frac{4(s-3)}{(s^2-6s+13)^2}$

2. ✖ $\frac{s-3}{s^2-6s+13}$

3. ✖ $\frac{s+3}{(s^2-6s+13)^2}$

4. ✖ $\frac{4(s+3)}{(s^2-6s+13)^2}$

Question Number : 7 Question Id : 3838235647 Question Type : MCQ Option Shuffling : Yes
Display Question Number : Yes

Correct Marks : 1 Wrong Marks : 0

The equation $x^3 - 6x - 4 = 0$ has one real root between 2 and 3. The 2nd approximation to the root of the equation by bisection method will be

Options :

1. ✖ 2.25

2. ✖ 2.53

3. ✓ 2.75

4. ✗ 2.57

Question Number : 8 Question Id : 3838235648 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes

Correct Marks : 1 Wrong Marks : 0

The approximate solution of the initial value problem $\frac{dy}{dx} = 1 + xy$ and $y(0) = 1$ by

Picard's method will be

Options :

1. ✗ $y = 1 + x + \frac{x^2}{2!} + \frac{x^3}{3!} + \dots$

2. ✓ $y = 1 + x + \frac{x^2}{2} + \frac{x^3}{3} + \frac{x^4}{8} + \dots$

3. ✗ $y = 1 - x - \frac{x^2}{2} - \frac{x^3}{3} - \frac{x^4}{8} - \dots$

4. ✗ $y = 1 + \frac{x^2}{2} + \frac{x^4}{8} - \dots$

Question Number : 9 Question Id : 3838235649 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes

Correct Marks : 1 Wrong Marks : 0

A continuous random variable X has a probability density function

$f(x) = 3x^2$, $0 \leq x \leq 1$. If $P(X \leq a) = P(X > a)$ then the value of ' a ' is

Options :

1. ✓ $\left(\frac{1}{2}\right)^{1/3}$

2. ✗ $\left(\frac{1}{3}\right)^{1/3}$

3. ✗ $\left(\frac{1}{4}\right)^{1/3}$

4. ✖ $\left(\frac{1}{5}\right)^{1/3}$

Question Number : 10 Question Id : 3838235650 Question Type : MCQ Option Shuffling : Yes
Display Question Number : Yes

Correct Marks : 1 Wrong Marks : 0

If the random variable X takes the values 1, 2, 3 and 4 such that
 $2P(X = 1) = 3P(X = 2) = P(X = 3) = 5P(X = 4)$, then the mean of X is

Options :

1. ✖ $\frac{30}{61}$

2. ✖ $\frac{90}{61}$

3. ✖ $\frac{139}{61}$

4. ✔ $\frac{149}{61}$

Chemical Engineering

Section Id :	383823112
Section Number :	2
Section type :	Online
Mandatory or Optional :	Mandatory
Number of Questions :	110
Number of Questions to be attempted :	110
Section Marks :	110
Maximum Instruction Time :	0
Sub-Section Number :	1
Sub-Section Id :	383823112
Question Shuffling Allowed :	Yes

Question Number : 11 Question Id : 3838235651 Question Type : MCQ Option Shuffling : Yes
Display Question Number : Yes

Correct Marks : 1 Wrong Marks : 0

The degrees of freedom for a system consisting a gaseous mixture of N_2 , H_2 and NH_3 is

Options :

1. ✖ 1
2. ✖ 2
3. ✖ 3
4. ✔ 4

Question Number : 12 Question Id : 3838235652 Question Type : MCQ Option Shuffling : Yes

Display Question Number : Yes

Correct Marks : 1 Wrong Marks : 0

A bypass stream in a chemical process is useful, because it

Options :

1. ✔ Facilitates better control of the process
2. ✖ Improves the conversion.
3. ✖ Increases the yield of products
4. ✖ Decreases the composition of inerts in the products

Question Number : 13 Question Id : 3838235653 Question Type : MCQ Option Shuffling : Yes

Display Question Number : Yes

Correct Marks : 1 Wrong Marks : 0

Some times in chemical processes, a part of the out let stream is rejected as waste in order to keep the impurity level in the system within limits. This phenomenon is termed as

Options :

1. ✖ Recycling
2. ✔ Purging
3. ✖ Bypassing
4. ✖ Recirculation

Question Number : 14 Question Id : 3838235654 Question Type : MCQ Option Shuffling : Yes
Display Question Number : Yes

Correct Marks : 1 Wrong Marks : 0

In a chemical reaction the material balance calculation is based on

Options :

1. ✓ Limiting reactant
2. ✗ Excess reactant
3. ✗ Inert
4. ✗ Catalyst

Question Number : 15 Question Id : 3838235655 Question Type : MCQ Option Shuffling : Yes
Display Question Number : Yes

Correct Marks : 1 Wrong Marks : 0

The substance that appears in one incoming stream and outgoing stream which serves as reference for computations is called as a

Options :

1. ✗ Catalyst
2. ✓ Tie substance
3. ✗ Promoter
4. ✗ Reactant

Question Number : 16 Question Id : 3838235656 Question Type : MCQ Option Shuffling : Yes
Display Question Number : Yes

Correct Marks : 1 Wrong Marks : 0

The equation $PV=nRT$ is best obeyed by gases at

Options :

1. ✓ Low pressure and high temperature
2. ✗ High pressure and low temperature

- 3. ✖ Low pressure and low temperature
- 4. ✖ High pressure and high temperature

Question Number : 17 Question Id : 3838235657 Question Type : MCQ Option Shuffling : Yes
Display Question Number : Yes
Correct Marks : 1 Wrong Marks : 0

In an adiabatic process

Options :

- 1. ✖ Temperature change is zero
- 2. ✖ Work done is zero
- 3. ✖ Enthalpy remains constant
- 4. ✔ Heat transfer is zero

Question Number : 18 Question Id : 3838235658 Question Type : MCQ Option Shuffling : Yes
Display Question Number : Yes
Correct Marks : 1 Wrong Marks : 0

Fundamental principle of refrigeration is based on -----law of thermodynamics

Options :

- 1. ✖ Zeroth
- 2. ✖ First
- 3. ✔ Second
- 4. ✖ Third

Question Number : 19 Question Id : 3838235659 Question Type : MCQ Option Shuffling : Yes
Display Question Number : Yes
Correct Marks : 1 Wrong Marks : 0

Gibbs free energy at constant pressure and temperature under equilibrium conditions is

Options :

1. ✖ Infinity
2. ✔ Zero
3. ✖ Maximum
4. ✖ Minimum

Question Number : 20 Question Id : 3838235660 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes

Correct Marks : 1 Wrong Marks : 0

The criteria for phase equilibria is

Options :

1. ✔ The chemical potential of each species is same in all phases at the same T and P
2. ✖ The chemical potential of each species is same in all phases at the same P
3. ✖ The concentration of each species is same in all phases
4. ✖ The entropy of each species is same in all phases at the same T and P

Question Number : 21 Question Id : 3838235661 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes

Correct Marks : 1 Wrong Marks : 0

The mixing process is

Options :

1. ✔ Inherently irreversible process
2. ✖ Inherently reversible process
3. ✖ Always exothermic process
4. ✖ Endothermic process

Question Number : 22 Question Id : 3838235662 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes

Correct Marks : 1 Wrong Marks : 0

Henry's law is closely obeyed by a gas when component _____

Options :

1. ✖ Pressure is extremely high
2. ✖ Concentration is extremely high
3. ✖ Temperature is extremely high
4. ✔ Concentration is extremely low

Question Number : 23 Question Id : 3838235663 Question Type : MCQ Option Shuffling : Yes

Display Question Number : Yes

Correct Marks : 1 Wrong Marks : 0

For an ideal gas, the activity co-efficient is

Options :

1. ✖ Directly proportional to pressure
2. ✖ Inversely proportional to pressure
3. ✔ Unity at all pressures
4. ✖ Zero at all pressures

Question Number : 24 Question Id : 3838235664 Question Type : MCQ Option Shuffling : Yes

Display Question Number : Yes

Correct Marks : 1 Wrong Marks : 0

Modified Raoult's law is written as -----(where γ is the activity coefficient)

Options :

1. ✔ $y_1 P = P_1^{sat} x_1 \gamma_1$
2. ✖ $y_1 P_1^{sat} = P x_1 \gamma_1$
3. ✖ $y_1 P = P_1^{sat} x_1$
4. ✖ $P = P_1^{sat} x_1 \gamma_1$

Question Number : 25 Question Id : 3838235665 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes

Correct Marks : 1 Wrong Marks : 0

NRTL equation isparameter model

Options :

1. ✖ Four
2. ✖ Two
3. ✖ One
4. ✔ Three

Question Number : 26 Question Id : 3838235666 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes

Correct Marks : 1 Wrong Marks : 0

Potential flow is the flow of

Options :

1. ✖ Compressible fluids with shear
2. ✖ Compressible fluids with no shear
3. ✖ Incompressible fluids with shear
4. ✔ Incompressible fluids with no shear

Question Number : 27 Question Id : 3838235667 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes

Correct Marks : 1 Wrong Marks : 0

Newton's law of viscosity relates

Options :

1. ✖ Shear stress and viscosity
2. ✖ Velocity gradient and pressure intensity

3. ✓ Shear stress and rate of angular deformation in a fluid

4. ✗ Pressure gradient and rate of angular deformation

Question Number : 28 Question Id : 3838235668 Question Type : MCQ Option Shuffling : Yes
Display Question Number : Yes

Correct Marks : 1 Wrong Marks : 0

Dimensions of kinematic viscosity is

Options :

1. ✗ MLT^{-1}

2. ✓ L^2T^{-1}

3. ✗ L^2T

4. ✗ L^2T^{-2}

Question Number : 29 Question Id : 3838235669 Question Type : MCQ Option Shuffling : Yes
Display Question Number : Yes

Correct Marks : 1 Wrong Marks : 0

The loss due to sudden contraction is proportional to

Options :

1. ✗ Velocity

2. ✓ Velocity head

3. ✗ Turbulence

4. ✗ Pressure

Question Number : 30 Question Id : 3838235670 Question Type : MCQ Option Shuffling : Yes
Display Question Number : Yes

Correct Marks : 1 Wrong Marks : 0

For Non-Newtonian fluids, power law model consists parameter K known as

Options :

1. ✗ Flow behaviour index

2. ✓ Flow consistency index

3. ✗ Viscosity

4. ✗ Kinematic viscosity

Question Number : 31 Question Id : 3838235671 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes

Correct Marks : 1 Wrong Marks : 0

Empirical equation that is applicable for flow through beds at $Re=1.0$ is

Options :

1. ✗ Haigen-Poiseuille equation

2. ✗ Burke-Plummer equation

3. ✓ Ergun equation

4. ✗ Kozeny-Carman equation

Question Number : 32 Question Id : 3838235672 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes

Correct Marks : 1 Wrong Marks : 0

Once the bed is fluidized, with increasing the flow, the pressure drop across the bed

Options :

1. ✗ Increases

2. ✗ Decreases

3. ✓ Remains constant

4. ✗ Varies linearly

Question Number : 33 Question Id : 3838235673 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes

Correct Marks : 1 Wrong Marks : 0

If the suction pressure is only slightly greater than the vapour pressure, some liquid may flash to vapour inside the pump is

Options :

1. ✓ Cavitation
2. ✗ Suction head
3. ✗ Suction
4. ✗ NPSH

Question Number : 34 Question Id : 3838235674 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes

Correct Marks : 1 Wrong Marks : 0

The heart of the centrifugal pump is

Options :

1. ✗ Baffle
2. ✓ Impeller
3. ✗ Flange
4. ✗ Joint

Question Number : 35 Question Id : 3838235675 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes

Correct Marks : 1 Wrong Marks : 0

Device in which the pressure drop is constant and the area through which the fluid varies with flow rate is

Options :

1. ✓ Area meters
2. ✗ Turbine meters
3. ✗ Orifice meters
4. ✗ Nozzle meters

Question Number : 36 Question Id : 3838235676 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes

Correct Marks : 1 Wrong Marks : 0

For sizing of fine materials, the most suitable equipment is a

Options :

1. ✘ trommel
2. ✘ grizzly
3. ✔ vibrating screen
4. ✘ shaking screen

Question Number : 37 Question Id : 3838235677 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes

Correct Marks : 1 Wrong Marks : 0

Filter aid is used

Options :

1. ✘ To increase the rate of filtration
2. ✔ To increase the porosity of the cake
3. ✘ To increase the pressure drop
4. ✘ As a support base for the septum

Question Number : 38 Question Id : 3838235678 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes

Correct Marks : 1 Wrong Marks : 0

Maximum size reduction in a fluid energy mill is achieved by

Options :

1. ✔ Inter particle attrition
2. ✘ Compression

3. ✖ Cutting

4. ✖ Impact

Question Number : 39 Question Id : 3838235679 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes

Correct Marks : 1 Wrong Marks : 0

Which of the following equipment is used for size reduction of coarse solids?

Options :

1. ✖ Grinder

2. ✖ Ball mill

3. ✖ Fluid energy mill

4. ✔ Jaw crusher

Question Number : 40 Question Id : 3838235680 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes

Correct Marks : 1 Wrong Marks : 0

The conveyor suitable for transportation of sticky material is

Options :

1. ✖ Apron conveyor

2. ✖ Belt conveyor

3. ✔ Screw conveyor

4. ✖ Pneumatic conveyor

Question Number : 41 Question Id : 3838235681 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes

Correct Marks : 1 Wrong Marks : 0

If d_p is the equivalent diameter of a non-spherical particle, V_p its volume and S_p its surface area, then its sphericity is Φ_s is defined by

Options :

1. ✓ $\Phi_s = 6 V_p / dp S_p$

2. ✗ $\Phi_s = V_p / dp S_p$

3. ✗ $\Phi_s = 6 dp S_p / V_p$

4. ✗ $\Phi_s = dp S_p / V_p$

Question Number : 42 Question Id : 3838235682 Question Type : MCQ Option Shuffling : Yes
Display Question Number : Yes

Correct Marks : 1 Wrong Marks : 0

Two particles are called to be equal settling, if they are having the same

Options :

1. ✗ Size

2. ✗ Specific gravity

3. ✓ Terminal velocities in the same fluid & in the same field of force

4. ✗ Solubility

Question Number : 43 Question Id : 3838235683 Question Type : MCQ Option Shuffling : Yes
Display Question Number : Yes

Correct Marks : 1 Wrong Marks : 0

Gravity settling process is not involved in the working of a

Options :

1. ✗ Classifier

2. ✗ Dorr-thickener

3. ✗ Sedimentation tank

4. ✓ Hydro cyclone

Question Number : 44 Question Id : 3838235684 Question Type : MCQ Option Shuffling : Yes
Display Question Number : Yes

Correct Marks : 1 Wrong Marks : 0

Highly viscous liquids & pastes are agitated by

Options :

1. ✓ Multiple blade paddles
2. ✗ Turbine agitators
3. ✗ Propellers
4. ✗ Single blade paddles

Question Number : 45 Question Id : 3838235685 Question Type : MCQ Option Shuffling : Yes

Display Question Number : Yes

Correct Marks : 1 Wrong Marks : 0

The main size reduction operation in ultrafine grinders is

Options :

1. ✗ Cutting
2. ✓ Attrition
3. ✗ Compression
4. ✗ Impact

Question Number : 46 Question Id : 3838235686 Question Type : MCQ Option Shuffling : Yes

Display Question Number : Yes

Correct Marks : 1 Wrong Marks : 0

Heat transfer by conduction is described by

Options :

1. ✓ Fourier's law
2. ✗ Fick's law
3. ✗ Newton's law of cooling
4. ✗ Stefan-Boltzmann law

Question Number : 47 Question Id : 3838235687 Question Type : MCQ Option Shuffling : Yes

Display Question Number : Yes

Correct Marks : 1 Wrong Marks : 0

The thermal conductivity of a solid

Options :

1. ✘ Decreases with increasing temperature
2. ✔ Increases with increasing temperature
3. ✘ Independent of temperature
4. ✘ Independent of pressure

Question Number : 48 Question Id : 3838235688 Question Type : MCQ Option Shuffling : Yes

Display Question Number : Yes

Correct Marks : 1 Wrong Marks : 0

The Prandtl number (N_{pr}) is the ratio of

Options :

1. ✘ thermal diffusivity to momentum diffusivity
2. ✘ momentum diffusivity to mass diffusivity
3. ✔ momentum diffusivity to thermal diffusivity
4. ✘ mass diffusivity to thermal diffusivity

Question Number : 49 Question Id : 3838235689 Question Type : MCQ Option Shuffling : Yes

Display Question Number : Yes

Correct Marks : 1 Wrong Marks : 0

The Fourier number (N_{Fo}) is defined as

(α is the thermal diffusivity, L is characteristic length and t is time)

Options :

1. ✘ hk/L
2. ✘ hL/k

3. ✖ tL^2/α

4. ✔ $\alpha t/L^2$

Question Number : 50 Question Id : 3838235690 Question Type : MCQ Option Shuffling : Yes

Display Question Number : Yes

Correct Marks : 1 Wrong Marks : 0

Which of the substance will have higher thermal conductivity

Options :

1. ✔ Stainless steel

2. ✖ Sand

3. ✖ Water

4. ✖ Air

Question Number : 51 Question Id : 3838235691 Question Type : MCQ Option Shuffling : Yes

Display Question Number : Yes

Correct Marks : 1 Wrong Marks : 0

Rate of heat transfer in case of forced convection when compared with natural convection is

Options :

1. ✖ Almost equal

2. ✖ Lower

3. ✔ Higher

4. ✖ Depends on the conditions & situation

Question Number : 52 Question Id : 3838235692 Question Type : MCQ Option Shuffling : Yes

Display Question Number : Yes

Correct Marks : 1 Wrong Marks : 0

Heat sensitive material like orange juice is concentrated in a

Options :

1. ✖ Long tube evaporator
2. ✖ Basket evaporator
3. ✖ Agitated film evaporator
4. ✔ Falling film evaporator

Question Number : 53 Question Id : 3838235693 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes

Correct Marks : 1 Wrong Marks : 0

Substances can emit or absorb radiant energy to varying extent provided their temperature is above

Options :

1. ✖ 273°K
2. ✖ 298°K
3. ✔ 0°K
4. ✖ 1000°K

Question Number : 54 Question Id : 3838235694 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes

Correct Marks : 1 Wrong Marks : 0

When vaporisation takes place directly at the heating surface, it is called

Options :

1. ✖ Film boiling
2. ✔ Nucleate boiling
3. ✖ Vapour binding
4. ✖ Pool boiling

Question Number : 55 Question Id : 3838235695 Question Type : MCQ Option Shuffling : Yes

Display Question Number : Yes

Correct Marks : 1 Wrong Marks : 0

The average heat transfer co-efficient for laminar film condensation on vertical surface is inversely proportional to (where, ΔT = Temperature drop across condensate film)

Options :

1. ✗ $(\Delta T)^2$
2. ✗ ΔT
3. ✗ $(\Delta T)^{3/2} (\Delta T)^{1/4}$
4. ✓ $(\Delta T)^{1/4}$

Question Number : 56 Question Id : 3838235696 Question Type : MCQ Option Shuffling : Yes

Display Question Number : Yes

Correct Marks : 1 Wrong Marks : 0

Rayleigh's equation applies to ----- distillation

Options :

1. ✗ Continuous
2. ✓ Differential
3. ✗ Steam
4. ✗ Flash

Question Number : 57 Question Id : 3838235697 Question Type : MCQ Option Shuffling : Yes

Display Question Number : Yes

Correct Marks : 1 Wrong Marks : 0

Which of the following is an undesirable characteristic for the solvent used in gas absorption?

Options :

1. ✗ Low pressure
2. ✗ Low viscosity
3. ✓ Low gas solubility

4. ✖ Low density

Question Number : 58 Question Id : 3838235698 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes

Correct Marks : 1 Wrong Marks : 0

The relative volatility for separation of a binary mixture by distillation should be

Options :

1. ✖ 0

2. ✖ 1

3. ✖ <1

4. ✔ >1

Question Number : 59 Question Id : 3838235699 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes

Correct Marks : 1 Wrong Marks : 0

Minimum number of trays required for achieving a given separation in distillation column with

Options :

1. ✔ Total reflux

2. ✖ No reflux

3. ✖ Zero reflux ratio

4. ✖ Minimum reflux ratio

Question Number : 60 Question Id : 3838235700 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes

Correct Marks : 1 Wrong Marks : 0

If q is interpreted to be the fraction of the feed stream that is liquid, then for saturated vapour feed to a distillation column

Options :

1. ✖ $q=1$

2. ✔ $q=0$

3. ✖ $q>1$

4. ✖ $q<0$

Question Number : 61 Question Id : 3838235701 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes

Correct Marks : 1 Wrong Marks : 0

In the adsorption operation, mass transfer is from

Options :

1. ✖ Liquid phase to gas phase

2. ✖ Solid phase to gas or liquid phase

3. ✔ Gas or liquid phase to solid phase

4. ✖ Gas to liquid phase

Question Number : 62 Question Id : 3838235702 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes

Correct Marks : 1 Wrong Marks : 0

If moisture content of solid on dry basis is X , then the same on wet basis is

Options :

1. ✔ $X/(X+1)$

2. ✖ $X/(1-X)$

3. ✖ $(1+X)/X$

4. ✖ $(1-X)/X$

Question Number : 63 Question Id : 3838235703 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes

Correct Marks : 1 Wrong Marks : 0

Rate of leaching increases with increasing

Options :

1. ✖ Size of the solid
2. ✖ Viscosity of solvent
3. ✖ Pressure
4. ✔ Temperature

Question Number : 64 Question Id : 3838235704 Question Type : MCQ Option Shuffling : Yes

Display Question Number : Yes

Correct Marks : 1 Wrong Marks : 0

Separation is based on freezing point difference in

Options :

1. ✖ extraction
2. ✔ crystallization
3. ✖ adsorption
4. ✖ absorption

Question Number : 65 Question Id : 3838235705 Question Type : MCQ Option Shuffling : Yes

Display Question Number : Yes

Correct Marks : 1 Wrong Marks : 0

Mass transfer co-efficient and diffusivity are related according to film theory as

Options :

1. ✖ $K \propto D^2$
2. ✖ $K \propto D^{0.75}$
3. ✖ $K \propto D^{1.5}$
4. ✔ $K \propto D$

Question Number : 66 Question Id : 3838235706 Question Type : MCQ Option Shuffling : Yes

Display Question Number : Yes

Correct Marks : 1 Wrong Marks : 0

The equipment frequently used for adiabatic humidification-cooling operation with recirculating liquid is

Options :

1. ✓ Spray chamber
2. ✗ Induced draft cooling tower
3. ✗ Tray chamber
4. ✗ Natural draft cooling tower

Question Number : 67 Question Id : 3838235707 Question Type : MCQ Option Shuffling : Yes

Display Question Number : Yes

Correct Marks : 1 Wrong Marks : 0

An example for two pair partially soluble and one pair completely soluble

Options :

1. ✗ Chloroform –water-acetone
2. ✗ Benzene- water- acetic acid
3. ✓ Chloro-benzene- water – methyl ethyl ketone
4. ✗ Naphthalene-aniline-isooctane

Question Number : 68 Question Id : 3838235708 Question Type : MCQ Option Shuffling : Yes

Display Question Number : Yes

Correct Marks : 1 Wrong Marks : 0

The increase in weight of dried porcelain crucible in humid atmosphere is because of

Options :

1. ✗ Absorption of moisture
2. ✓ Adsorption of moisture

3. ✖ Absorption of gas

4. ✖ Adsorption of gas

Question Number : 69 Question Id : 3838235709 Question Type : MCQ Option Shuffling : Yes
Display Question Number : Yes

Correct Marks : 1 Wrong Marks : 0

The diffusivity(D) in a binary gas mixture is related to the temperature(T) as

Options :

1. ✖ $D \propto T$

2. ✖ $D \propto T^{0.5}$

3. ✔ $D \propto T^{1.5}$

4. ✖ $D \propto T^2$

Question Number : 70 Question Id : 3838235710 Question Type : MCQ Option Shuffling : Yes
Display Question Number : Yes

Correct Marks : 1 Wrong Marks : 0

Which of the following common trays offers the lowest pressure drop

Options :

1. ✖ Bubble-cap tray

2. ✔ Sieve tray

3. ✖ Valve tray

4. ✖ Bubble caped valve tray

Question Number : 71 Question Id : 3838235711 Question Type : MCQ Option Shuffling : Yes
Display Question Number : Yes

Correct Marks : 1 Wrong Marks : 0

Rate determining step in a reaction consisting of a number of steps in series is the

Options :

1. ✖ Fastest step

2. ✓ Slowest step
3. ✗ Intermediate step
4. ✗ Data insufficient; can't be predicted

Question Number : 72 Question Id : 3838235712 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes

Correct Marks : 1 Wrong Marks : 0

Molecularity of reaction

Options :

1. ✗ always equal to the overall order of the reaction
2. ✗ always greater than the overall order of the reaction
3. ✗ always smaller than the overall order of the reaction
4. ✓ cannot have a fractional value

Question Number : 73 Question Id : 3838235713 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes

Correct Marks : 1 Wrong Marks : 0

In a first order reaction, the time required to reduce the concentration of reactant from 1 mol/lit. to 0.5 mol/lit. will be _____ that required to reduce it from 10 moles/lit. to 5moles/lit. in the same volume

Options :

1. ✗ More than
2. ✗ Less than
3. ✓ Same as
4. ✗ Data insufficient and cannot be determined

Question Number : 74 Question Id : 3838235714 Question Type : MCQ Option Shuffling : Yes

Display Question Number : Yes

Correct Marks : 1 Wrong Marks : 0

The rate equation in which rate equation corresponds to a stoichiometric equation is called

Options :

1. ✓ Elementary reaction
2. ✗ Non-elementary reaction
3. ✗ Parallel reaction
4. ✗ Auto catalytic reaction

Question Number : 75 Question Id : 3838235715 Question Type : MCQ Option Shuffling : Yes

Display Question Number : Yes

Correct Marks : 1 Wrong Marks : 0

Arrhenius equation shows the variation of _____ with temperature

Options :

1. ✗ Reaction rate
2. ✓ Rate constant
3. ✗ Activation energy
4. ✗ Frequency factor

Question Number : 76 Question Id : 3838235716 Question Type : MCQ Option Shuffling : Yes

Display Question Number : Yes

Correct Marks : 1 Wrong Marks : 0

A plug flow reactor is characterized by

Options :

1. ✗ High capacity
2. ✗ Presence of axial mixing
3. ✓ Presence of lateral mixing

4. ✖ Constant composition and temperature of reaction mixtures

Question Number : 77 Question Id : 3838235717 Question Type : MCQ Option Shuffling : Yes

Display Question Number : Yes

Correct Marks : 1 Wrong Marks : 0

Pick out the wrong statement

Options :

1. ✖ A catalyst does not alter the final position of equilibrium in a reversible reaction

2. ✔ A catalyst initiates a reaction

3. ✖ A catalyst is specific in reaction

4. ✖ A catalyst remains unchanged in changing composition at the end of the reaction

Question Number : 78 Question Id : 3838235718 Question Type : MCQ Option Shuffling : Yes

Display Question Number : Yes

Correct Marks : 1 Wrong Marks : 0

The dimensions of the rate constant for n^{th} order homogeneous reaction are

Options :

1. ✖ $(\text{time})^{-n}$

2. ✖ $(\text{time})^{-n} (\text{concentration})^{n-1}$

3. ✔ $(\text{time})^{-1} (\text{concentration})^{1-n}$

4. ✖ $(\text{time})(\text{concentration})^{n-1}$

Question Number : 79 Question Id : 3838235719 Question Type : MCQ Option Shuffling : Yes

Display Question Number : Yes

Correct Marks : 1 Wrong Marks : 0

For a zero order reaction, the fractional conversion of the reactant is

Options :

1. ✖ Directly proportional to the initial concentration

2. ✘ Independent of the initial concentration
3. ✔ Inversely proportional to the initial concentration
4. ✘ Directly proportional to the square root of the initial concentration

Question Number : 80 Question Id : 3838235720 Question Type : MCQ Option Shuffling : Yes
Display Question Number : Yes

Correct Marks : 1 Wrong Marks : 0

For an ideal plug flow reactor the value of the Peclet number is

Options :

1. ✘ Zero
2. ✘ Infinity
3. ✔ 1
4. ✘ 10

Question Number : 81 Question Id : 3838235721 Question Type : MCQ Option Shuffling : Yes
Display Question Number : Yes

Correct Marks : 1 Wrong Marks : 0

In autocatalytic reactions

Options :

1. ✘ One of the reactant acts as catalyst
2. ✔ One of the product acts as catalyst
3. ✘ Catalysts have very high selectivity
4. ✘ Both reactant & product act as catalyst

Question Number : 82 Question Id : 3838235722 Question Type : MCQ Option Shuffling : Yes
Display Question Number : Yes

Correct Marks : 1 Wrong Marks : 0

The dispersion model accounts for

Options :

1. ✓ Deviation from ideal PFR
2. ✗ Ideal CSTR
3. ✗ Combining batch and CSTR
4. ✗ CSTRs connected in parallel

Question Number : 83 Question Id : 3838235723 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes

Correct Marks : 1 Wrong Marks : 0

According to tanks in series model, the spread of the tracer curve is proportional to

Options :

1. ✗ Square of distance from the tracer origin
2. ✓ Square root of distance from the tracer origin
3. ✗ Cube of distance from the tracer origin
4. ✗ Inverse square of distance from the tracer origin

Question Number : 84 Question Id : 3838235724 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes

Correct Marks : 1 Wrong Marks : 0

The reaction in which the rate of reaction is a function of rate constant alone is

Options :

1. ✗ First order reaction
2. ✗ Second order reaction
3. ✓ Zero order reaction
4. ✗ Third order reaction

Question Number : 85 Question Id : 3838235725 Question Type : MCQ Option Shuffling : Yes

Display Question Number : Yes

Correct Marks : 1 Wrong Marks : 0

Rate of solid-state diffusion does not depend on which of the following?

Options :

1. ✖ Temperature
2. ✖ Diffusing species
3. ✖ Host solid
4. ✔ Gravity

Question Number : 86 Question Id : 3838235726 Question Type : MCQ Option Shuffling : Yes

Display Question Number : Yes

Correct Marks : 1 Wrong Marks : 0

Which of the following is a desirable characteristic of an instrument ?

Options :

1. ✖ High drift
2. ✔ High fidelity
3. ✖ High measuring lag
4. ✖ Poor reproducibility

Question Number : 87 Question Id : 3838235727 Question Type : MCQ Option Shuffling : Yes

Display Question Number : Yes

Correct Marks : 1 Wrong Marks : 0

Pick out the most suitable instrument for measuring temperature in the range of -40°C to 425°C

Options :

1. ✔ Bimetallic thermometer
2. ✖ Radiation pyrometer
3. ✖ Mercury thermometer

4. ✖ Infrared thermometer

Question Number : 88 Question Id : 3838235728 Question Type : MCQ Option Shuffling : Yes
Display Question Number : Yes

Correct Marks : 1 Wrong Marks : 0

An algebraic equation relating the Celsius and Fahrenheit is

Options :

1. ✖ $C = \left(\frac{9}{5}\right)(F - 32)$

2. ✖ $C = \frac{9}{5}(F)$

3. ✔ $C = \left(\frac{5}{9}\right)(F - 32)$

4. ✖ $C = \frac{5}{9F}$

Question Number : 89 Question Id : 3838235729 Question Type : MCQ Option Shuffling : Yes
Display Question Number : Yes

Correct Marks : 1 Wrong Marks : 0

The volumetric expansion of a liquid caused by temperature changes is minimum for

Options :

1. ✔ Mercury

2. ✖ Ethyl alcohol

3. ✖ Toluene

4. ✖ Pentane

Question Number : 90 Question Id : 3838235730 Question Type : MCQ Option Shuffling : Yes
Display Question Number : Yes

Correct Marks : 1 Wrong Marks : 0

Which of the following thermocouples will give the highest output for the same value of hot and cold junction temperature?

Options :

1. ✖ Platinum-platinum + rhodium
2. ✖ Iron-constantan
3. ✔ Chromel-constantan
4. ✖ Nickle – Chromium

Question Number : 91 Question Id : 3838235731 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes

Correct Marks : 1 Wrong Marks : 0

U-tube manometer is an example of

Options :

1. ✔ second order system
2. ✖ third order system
3. ✖ zero order system
4. ✖ first order system

Question Number : 92 Question Id : 3838235732 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes

Correct Marks : 1 Wrong Marks : 0

A proportional controller with a gain of K_c is used to control a first order process. The offset will increase, if

Options :

1. ✖ Derivative control action is introduced
2. ✖ K_c is increased
3. ✖ Integral control action is introduced
4. ✔ K_c is reduced

Question Number : 93 Question Id : 3838235733 Question Type : MCQ Option Shuffling : Yes
Display Question Number : Yes

Correct Marks : 1 Wrong Marks : 0

A negative gain margin expressed in decibels means a/an _____ system.

Options :

1. ✖ Stable
2. ✖ Critically damped
3. ✔ Unstable
4. ✖ Over damped

Question Number : 94 Question Id : 3838235734 Question Type : MCQ Option Shuffling : Yes
Display Question Number : Yes

Correct Marks : 1 Wrong Marks : 0

In a single tank system, the transfer function of level to inlet flow rate is

Options :

1. ✖ $R/\tau s$
2. ✔ $R/(\tau s + 1)$
3. ✖ $1/(\tau s + 1)$
4. ✖ $1/\tau s$

Question Number : 95 Question Id : 3838235735 Question Type : MCQ Option Shuffling : Yes
Display Question Number : Yes

Correct Marks : 1 Wrong Marks : 0

Use of I-control along with P-control facilitates

Options :

1. ✖ Reduction of stability time
2. ✖ Reduction of offset

3. ✓ Elimination of offset

4. ✗ Increase of offset

Question Number : 96 Question Id : 3838235736 Question Type : MCQ Option Shuffling : Yes

Display Question Number : Yes

Correct Marks : 1 Wrong Marks : 0

The closed loop pole of a stable second order system could be

Options :

1. ✓ Both real and negative

2. ✗ Complex conjugate with positive real parts

3. ✗ Both real and positive

4. ✗ One real positive and the other real negative

Question Number : 97 Question Id : 3838235737 Question Type : MCQ Option Shuffling : Yes

Display Question Number : Yes

Correct Marks : 1 Wrong Marks : 0

The transfer function for a PID controller is (where, τ_i is the integral (reset) time and τ_D is the derivative time.)

Options :

1. ✗ $K_c(1 + \tau_i s + \tau_D s)$

2. ✗ $K_c \left(1 + \frac{1}{\tau_i s} + \frac{1}{\tau_D s} \right)$

3. ✗ $K_c \left(1 + \tau_i s + \frac{1}{\tau_D s} \right)$

4. ✓

$$K_c \left(1 + \frac{1}{\tau_i s} + \tau_D s \right)$$

Question Number : 98 Question Id : 3838235738 Question Type : MCQ Option Shuffling : Yes
Display Question Number : Yes

Correct Marks : 1 Wrong Marks : 0

For an input forcing function, $X(t) = 2t^2$, the Laplace transform of this function is

Options :

1. ✖ $2/s^2$

2. ✔ $4/s^3$

3. ✖ $2/s^3$

4. ✖ $4/s^2$

Question Number : 99 Question Id : 3838235739 Question Type : MCQ Option Shuffling : Yes
Display Question Number : Yes

Correct Marks : 1 Wrong Marks : 0

What is the ratio of output amplitude to input amplitude for a sinusoidal forcing function in a first order system?

Options :

1. ✔ < 1

2. ✖ > 1

3. ✖ 1

4. ✖ Zero

Question Number : 100 Question Id : 3838235740 Question Type : MCQ Option Shuffling : Yes
Display Question Number : Yes

Correct Marks : 1 Wrong Marks : 0

Transfer function of transportation lag is

Options :

1. ✖ $e^{\tau s}$
2. ✖ $\frac{1}{\tau s + 1}$
3. ✔ $e^{-\tau s}$
4. ✖ $e^{-\tau s + 1}$

Question Number : 101 Question Id : 3838235741 Question Type : MCQ Option Shuffling : Yes
Display Question Number : Yes

Correct Marks : 1 Wrong Marks : 0

The ratio of working capital to total capital investment for most chemical plants (except for non-seasonal based products) is in the range of _____ percent.

Options :

1. ✔ 10 to 20
2. ✖ 1 to 2
3. ✖ 0.1 to 1
4. ✖ 50 to 60

Question Number : 102 Question Id : 3838235742 Question Type : MCQ Option Shuffling : Yes
Display Question Number : Yes

Correct Marks : 1 Wrong Marks : 0

Out of the following, the depreciation calculated by the _____ method is the maximum.

Options :

1. ✖ Straight line
2. ✔ Diminishing balance
3. ✖ Sum of the years digit
4. ✖ Sinking fund

Question Number : 103 Question Id : 3838235743 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes

Correct Marks : 1 Wrong Marks : 0

Utilities cost in the operation of chemical process plant comes under the

Options :

1. ✖ plant overhead cost
2. ✖ fixed charges
3. ✔ direct production cost
4. ✖ general expenses

Question Number : 104 Question Id : 3838235744 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes

Correct Marks : 1 Wrong Marks : 0

The total investment in a project is Rs. 10 lakhs and the annual profit is 1.5 lakhs. If the project life is 10 years, then the simple rate of return on investment is

Options :

1. ✖ 15%
2. ✖ 10%
3. ✖ 150%
4. ✔ 1.5%

Question Number : 105 Question Id : 3838235745 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes

Correct Marks : 1 Wrong Marks : 0

For a given fluid, as the pipe diameter increases, the pumping cost

Options :

1. ✖ Remains the same
2. ✖ Increases

3. ✓ Decreases

4. ✗ May increase or decrease depending on nature of the fluid

Question Number : 106 Question Id : 3838235746 Question Type : MCQ Option Shuffling : Yes

Display Question Number : Yes

Correct Marks : 1 Wrong Marks : 0

Operating profit of a chemical plant is equal to

Options :

1. ✓ Profit before interest and tax

2. ✗ Profit after tax plus depreciation

3. ✗ Net profit + tax

4. ✗ Profit after tax

Question Number : 107 Question Id : 3838235747 Question Type : MCQ Option Shuffling : Yes

Display Question Number : Yes

Correct Marks : 1 Wrong Marks : 0

In a manufacturing industry, breakeven point occurs, when the

Options :

1. ✗ Total annual rate of production equals the assigned value

2. ✓ Total annual product cost equals the total annual sales

3. ✗ Annual profit equals the expected value

4. ✗ Annual sales equals the fixed cost

Question Number : 108 Question Id : 3838235748 Question Type : MCQ Option Shuffling : Yes

Display Question Number : Yes

Correct Marks : 1 Wrong Marks : 0

The depreciation during the year 'n', in diminishing balance method of depreciation calculation, is calculated by multiplying a fixed percentage 'N' to the

Options :

1. ✖ Initial cost
2. ✖ Difference between initial cost and salvage value
3. ✖ Depreciation during the $(n - 1)^{\text{th}}$ year
4. ✔ Book value at the end of $(n - 1)^{\text{th}}$ year

Question Number : 109 Question Id : 3838235749 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes

Correct Marks : 1 Wrong Marks : 0

Fixed charges for a chemical plant does not include the

Options :

1. ✔ Repair and maintenance charges
2. ✖ Interest on borrowed money
3. ✖ Rent of land and buildings
4. ✖ Property tax, insurance and depreciation

Question Number : 110 Question Id : 3838235750 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes

Correct Marks : 1 Wrong Marks : 0

_____ taxes are based on gross earnings

Options :

1. ✖ Property
2. ✖ Excise
3. ✔ Income
4. ✖ Capital gain

Question Number : 111 Question Id : 3838235751 Question Type : MCQ Option Shuffling : Yes

Display Question Number : Yes

Correct Marks : 1 Wrong Marks : 0

Ammonia synthesis gas is produced from natural gas by

Options :

1. ✖ Thermal cracking
2. ✔ Steam reforming
3. ✖ Partial oxidation
4. ✖ Hydrogenation

Question Number : 112 Question Id : 3838235752 Question Type : MCQ Option Shuffling : Yes

Display Question Number : Yes

Correct Marks : 1 Wrong Marks : 0

Which is used as bleaching agent in paper industries?

Options :

1. ✔ ClO_2
2. ✖ HCl
3. ✖ H_2O_2
4. ✖ H_3PO_4

Question Number : 113 Question Id : 3838235753 Question Type : MCQ Option Shuffling : Yes

Display Question Number : Yes

Correct Marks : 1 Wrong Marks : 0

Butadiene is copolymerized by

Options :

1. ✖ Addition polymerization
2. ✖ Condensation polymerization
3. ✔ Emulsion polymerization
4. ✖ Solution polymerization

Question Number : 114 Question Id : 3838235754 Question Type : MCQ Option Shuffling : Yes
Display Question Number : Yes

Correct Marks : 1 Wrong Marks : 0

Catalyst used in the synthesis of Ammonia is

Options :

1. ✖ Cu
2. ✖ Cobalt
3. ✔ Fe
4. ✖ Zn

Question Number : 115 Question Id : 3838235755 Question Type : MCQ Option Shuffling : Yes
Display Question Number : Yes

Correct Marks : 1 Wrong Marks : 0

Urea is represented as

Options :

1. ✔ $\text{NH}_2\text{CO.NH}_2$
2. ✖ $\text{NH}_3\text{CO.CH}_3$
3. ✖ $\text{NH.CO}_2\text{.NH}$
4. ✖ $\text{NH}_3\text{.CO}_2\text{.NH}_3$

Question Number : 116 Question Id : 3838235756 Question Type : MCQ Option Shuffling : Yes
Display Question Number : Yes

Correct Marks : 1 Wrong Marks : 0

Ammonium nitrate (a fertiliser) is coated with limestone powder to

Options :

1. ✖ Increase its nitrogen content
2. ✖ Cut down its production cost

3. ✓ Avoid the risk of explosion

4. ✗ Add extra nutrient as fertiliser

Question Number : 117 Question Id : 3838235757 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes

Correct Marks : 1 Wrong Marks : 0

Action of phosphoric acid on rock phosphate produces

Options :

1. ✗ Superphosphate

2. ✗ Diammonium phosphate

3. ✗ Nitrophosphate

4. ✓ Triple superphosphate

Question Number : 118 Question Id : 3838235758 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes

Correct Marks : 1 Wrong Marks : 0

Steam reforming of naphtha is a source of hydrogen production for nitrogenous fertiliser industry. What is the usual ratio of steam to carbon maintained in the process of steam reforming of naphtha?

Options :

1. ✗ 1.5:1

2. ✓ 3.5:1

3. ✗ 10:1

4. ✗ 15:1

Question Number : 119 Question Id : 3838235759 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes

Correct Marks : 1 Wrong Marks : 0

Which of the following is not an intermediate distillate product in petroleum refining?

Options :

1. ✖ Heavy fuel oils
2. ✖ Diesel oils
3. ✔ Lubricating oil
4. ✖ Gas oil

Question Number : 120 Question Id : 3838235760 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes

Correct Marks : 1 Wrong Marks : 0

The polymer having the highest percentage in polypropylene is

Options :

1. ✖ Syndiotactic
2. ✖ Isopropactic
3. ✖ Atactic
4. ✔ Isotactic