

HPCL Engineer

**Previous Year Paper
(Chemical)
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| | |
|------------------|-------------------|
| Participant ID | |
| Participant Name | |
| Test Center Name | |
| Test Date | 23/12/2023 |
| Test Time | 2:00 PM - 4:30 PM |
| Subject | Chemical Engineer |

Section : English Language

Q.1 Choose the most appropriate one-word substitution for the below word.

"Study of hereditary, genes and variation in living organisms"

- Ans
1. Biology
 2. Genetics
 3. Hydraulics
 4. Demography

Question ID : 630680507247
 Option 1 ID : 6306801982449
 Option 2 ID : 6306801982452
 Option 3 ID : 6306801982451
 Option 4 ID : 6306801982450
 Status : Answered
 Chosen Option : 1

Q.2 In the following question a part of the statement is given in brackets. You are required to replace the text with correct Idioms given in the options.

After working for three hours on her science fair project, Serena decided to (stop working and plan to pick it up later).

- Ans
1. call it a day
 2. crack a window
 3. cutting corners
 4. cherry on top

Question ID : 630680507248
 Option 1 ID : 6306801982454
 Option 2 ID : 6306801982455
 Option 3 ID : 6306801982456
 Option 4 ID : 6306801982453
 Status : Not Answered
 Chosen Option : --

Q.3 In the following passage some words have been deleted. Fill in the blank with the correct word from the below options.

Mr. Richard suspected that his wife was going deaf. Recently, the number of times which she had kept _____ when Mr. Richard talked to her had increased.

- Ans
1. silent
 2. talking
 3. preparing
 4. yelling

Question ID : 630680507254
Option 1 ID : 6306801982477
Option 2 ID : 6306801982478
Option 3 ID : 6306801982479
Option 4 ID : 6306801982480
Status : Answered
Chosen Option : 1

Q.4 Select the most appropriate adjective from the given option to fill in the blanks for the given sentence.

Tim is very good at telling funny stories. He can be very _____.

- Ans
1. bored
 2. amusing
 3. interest
 4. disappointing

Question ID : 630680507243
Option 1 ID : 6306801982436
Option 2 ID : 6306801982435
Option 3 ID : 6306801982433
Option 4 ID : 6306801982434
Status : Answered
Chosen Option : 2

Q.5 Fill in the blank with the correct word from the below options.

Mr. Richard suspected that his wife was going deaf. There _____ a number of occasions when his wife gave no replies when Mr. Richard asked her questions.

- Ans
1. were
 2. was going
 3. have being
 4. are

Question ID : 630680507252
Option 1 ID : 6306801982472
Option 2 ID : 6306801982471
Option 3 ID : 6306801982470
Option 4 ID : 6306801982469
Status : Answered
Chosen Option : 1

most logical order of the sentences from among the four given choices to form a coherent paragraph.

Advancements in transport by land, sea, and air have transformed the way we travel, making it faster, more convenient, and reliable.

Artificially propelled spacecraft has even made it possible to explore outer space.

A helicopter can now take off and land vertically, while the jet engine has

revolutionized air travel, making it possible to cross oceans and continents in a matter of hours.

Advancements in transport have provided numerous advantages.

Electric trains have electrified their railway systems, motor cars have become faster and more comfortable, and hovercraft has made short sea and land journeys more accessible.

C

D

E

A

Question ID : 630680507245

Option 1 ID : 6306801982443

Option 2 ID : 6306801982444

Option 3 ID : 6306801982442

Option 4 ID : 6306801982441

Status : Not Answered

Chosen Option : --

Choose the most appropriate one-word substitution for the below word.

Depth of Human Mind"

Psychography

Psychology

Psychology

Psychiatry

Question ID : 630680507246

Option 1 ID : 6306801982446

Option 2 ID : 6306801982445

Option 3 ID : 6306801982447

Option 4 ID : 6306801982448

Status : Answered

Chosen Option : 3

Choose the most appropriate adjective from the given option to fill in the blanks for the given sentence.

The room hadn't been cleaned for ages. It was really _____.

Stagnant

Stagnant

Stagnant

Stagnant

Question ID : 630680507242

nk with the correct word from the below options.

was a man by the name of Mr. Richard. Mr. Richard suspected that his wife was
There were a number of occasions when his wife _____ no replies when Mr.
d her questions.

- g
- g
- .
- not

Question ID : 630680507253
 Option 1 ID : 6306801982476
 Option 2 ID : 6306801982473
 Option 3 ID : 6306801982475
 Option 4 ID : 6306801982474
 Status : Answered
 Chosen Option : 3

ost appropriate SYNONYM of the given word below.

- ficial
- ntageous
- less
- gerous

Question ID : 630680507250
 Option 1 ID : 6306801982463
 Option 2 ID : 6306801982464
 Option 3 ID : 6306801982461
 Option 4 ID : 6306801982462
 Status : Answered
 Chosen Option : 4

ost appropriate SYNONYM of the given word below.

- ig
- aining
- ealing
- g
- ading

Question ID : 630680507251
 Option 1 ID : 6306801982468
 Option 2 ID : 6306801982465
 Option 3 ID : 6306801982466
 Option 4 ID : 6306801982467
 Status : Not Answered
 Chosen Option : --

In the following question a part of the statement is given in brackets. You are required to complete the statement with correct Idioms given in the options.

Jaydon was late with his English assignment, Ms. Angela decided to (ease up on some leeway and give another chance) since she knew he had the stomach

the ball

as a cucumber

in your fingers

to give some slack

Question ID : 630680507249

Option 1 ID : 6306801982458

Option 2 ID : 6306801982459

Option 3 ID : 6306801982457

Option 4 ID : 6306801982460

Status : Not Answered

Chosen Option : --

Choose the most logical order of the sentences from among the four given choices to form a coherent paragraph.

(1) Food waste is a major issue globally, where millions of tons of food fit for consumption are discarded by consumers and retailers in industrialized nations.

(2) In addition, food also wastes other crucial resources such as energy and water used in production and cooking, which could have been used more effectively to feed the population and support sustainable food production.

(3) Eventually, food waste leads to more rotting food, creating more methane, which is one of the most harmful greenhouse gases contributing to climate change.

(4) This wastage is happening while over 20,000 children under the age of 5 die every year and one in every seven people in the world go to bed hungry.

(5) To address food waste, we need to adopt and practice the theme of "Think. Eat. Save," which encourages individuals to become more aware of the environmental impact of their food choices and to make informed decisions.

A

D

A

C

Question ID : 630680507244

Option 1 ID : 6306801982439

Option 2 ID : 6306801982438

Option 3 ID : 6306801982437

Option 4 ID : 6306801982440

Status : Not Answered

Chosen Option : --

ion:

Below passage and answer the questions.

are essential resources for our planet, providing us with valuable medicines, natural insecticides. They are also a habitat for millions of animals, plant, and insects, many of which are yet to be discovered. The destruction of rainforests through deforestation, and cattle ranching is resulting in the loss of species, erosion of fertile soil, and a decline in the world's oxygen supply. The first cause of mass destruction of rainforests is logging. The need for commercially valuable trees such as mahogany and teak leads to bulldozing roads through the forest, taking down other trees in the process. For every one commercially valuable tree is cut down, on average, 17 non-commercially valuable trees also fall. The logging industry can eradicate 30% of a rainforest where only a few commercially valuable trees were cut down, and this rate can lead to the clearing out of rainforests in a few years.

The destruction of rainforests is resulting in the loss of millions of animals, plant, and insect species. The loss of species and destruction of fertile land has a significant impact on the world's oxygen supply. Rainforests are responsible for a significant portion of the world's oxygen supply. The destruction of rainforests ultimately leads to the destruction of our own planet.

Therefore, the rainforest is an essential resource for our planet and contains many possibilities. However, the destruction of rainforests through logging, deforestation, and cattle ranching is leading to the loss of millions of species, eroded and degraded soil, and a decline in the world's oxygen supply. It is essential that we take action to protect our planet and prevent further damage to the environment.

Q No : 14

What is the central theme of the passage.

Option 1: The passage talks about the importance of rainforests and the actions we need to take to protect our planet and prevent further damage to the environment.

Option 2: The passage talks about the destruction of rainforests through logging.

Option 3: The passage talks about the need for commercially valuable trees such as mahogany.

Option 4: The passage talks about the loss of millions of species due to rainforests.

Question ID : 630680507257

Option 1 ID : 6306801982486

Option 2 ID : 6306801982485

Option 3 ID : 6306801982487

Option 4 ID : 6306801982488

Status : Not Answered

Chosen Option : --

ion:

Below passage and answer the questions.

Trees are essential resources for our planet, providing us with valuable medicines, natural insecticides. They are also a habitat for millions of animals, plant, and insects, many of which are yet to be discovered. The destruction of rainforests through deforestation, and cattle ranching is resulting in the loss of species, erosion of fertile soil, and a decline in the world's oxygen supply. The first cause of mass destruction of rainforests is logging. The need for commercially valuable trees such as mahogany and teak leads to bulldozing roads through the forest, taking down other trees in the process. For every one commercially valuable tree is cut down, on average, 17 non-commercially valuable trees also fall. The logging industry can eradicate 30% of a rainforest where only a few commercially valuable trees were cut down, and this rate can lead to the clearing out of rainforests in a few years.

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Q No : 15

Choose the most appropriate SYNONYM of the given word below.

Significant

Insignificant

Essential

Non-essential

Question ID : 630680507259

Option 1 ID : 6306801982494

Option 2 ID : 6306801982493

Option 3 ID : 6306801982495

Option 4 ID : 6306801982496

Status : Answered

Chosen Option : 3

ion:

Below passage and answer the questions.

are essential resources for our planet, providing us with valuable medicines, natural insecticides. They are also a habitat for millions of animals, plant, and insects, many of which are yet to be discovered. The destruction of rainforests through deforestation, and cattle ranching is resulting in the loss of species, erosion of fertile soil, and a decline in the world's oxygen supply. The first cause of mass destruction of rainforests is logging. The need for commercially valuable trees such as mahogany and teak leads to bulldozing roads through the forest, taking down other trees in the process. For every one commercially valuable tree is cut down, on average, 17 non-commercially valuable trees also fall. The logging industry can eradicate 30% of a rainforest where only a few commercially valuable trees were cut down, and this rate can lead to the clearing out of rainforests in a few years.

The destruction of rainforests is resulting in the loss of millions of animals, plant, and insect species. The loss of species and destruction of fertile land has a significant impact on the world's oxygen supply. Rainforests are responsible for a significant portion of the world's oxygen supply. The destruction of rainforests ultimately leads to the destruction of our own planet.

Therefore, the rainforest is an essential resource for our planet and contains many possibilities. However, the destruction of rainforests through logging, deforestation, and cattle ranching is leading to the loss of millions of species, eroded and degraded soil, and a decline in the world's oxygen supply. It is essential that we take action to protect our planet and prevent further damage to the environment.

Q No : 16

Choose the suitable title for the passage.

(A) Natural Habitat and its issues

(B) Loss of millions of species

(C) Rainforests- essential resources for our planet

(D) Destruction of Rainforests

Question ID : 630680507256

Option 1 ID : 6306801982482

Option 2 ID : 6306801982481

Option 3 ID : 6306801982483

Option 4 ID : 6306801982484

Status : Not Answered

Chosen Option : --

ion:

Below passage and answer the questions.

are essential resources for our planet, providing us with valuable medicines, natural insecticides. They are also a habitat for millions of animals, plant, and insects, many of which are yet to be discovered. The destruction of rainforests through deforestation, and cattle ranching is resulting in the loss of species, erosion of fertile soil, and a decline in the world's oxygen supply. The first cause of mass destruction of rainforests is logging. The need for commercially valuable trees such as mahogany and teak leads to bulldozing roads through the forest, taking down other trees in the process. For every one commercially valuable tree is cut down, on average, 17 non-commercially valuable trees also fall. The logging industry can eradicate 30% of a rainforest where only a few commercially valuable trees were cut down, and this rate can lead to the clearing out of rainforests in a few years.

The destruction of rainforests is resulting in the loss of millions of animals, plant, and insect species. The loss of species and destruction of fertile land has a significant impact on the world's oxygen supply. Rainforests are responsible for a significant portion of the world's oxygen supply. The destruction of rainforests ultimately leads to the destruction of our own planet.

Therefore, the rainforest is an essential resource for our planet and contains many possibilities. However, the destruction of rainforests through logging, deforestation, and cattle ranching is leading to the loss of millions of species, eroded and degraded soil, and a decline in the world's oxygen supply. It is essential that we take action to protect our planet and prevent further damage to the environment.

Q No : 17

Choose the most appropriate SYNONYM of the given word below.

Deforestation

Logging

Clearing

Conservation

Question ID : 630680507258

Option 1 ID : 6306801982491

Option 2 ID : 6306801982490

Option 3 ID : 6306801982489

Option 4 ID : 6306801982492

Status : Answered

Chosen Option : 4

Quantitative Aptitude

Which symbol will come in the place of “?” in the following question?

$$81 = \sqrt[3]{64} + \sqrt[3]{2197}$$

Question ID : 630680507578

Option 1 ID : 6306801983756

Id scooter for Rs. 2800 and spends Rs. 1000 on its repairs. If he sells the scooter for Rs. 4800, his gain

.32%

.31%

.67%

.5%

Question ID : 630680507582

Option 1 ID : 6306801983769

Option 2 ID : 6306801983770

Option 3 ID : 6306801983772

Option 4 ID : 6306801983771

Status : **Marked For Review**

Chosen Option : 2

sum of square of prime number between 4 to 16?

1

5

4

Question ID : 630680507579

Option 1 ID : 6306801983759

Option 2 ID : 6306801983758

Option 3 ID : 6306801983760

Option 4 ID : 6306801983757

Status : **Answered**

Chosen Option : 3

Find a sum of Rs. 6144 in a bank at 6.5% per annum compounded annually for a time period of 2 years. Find interest.

Rs. 825

Rs. 981

Rs. 1181

Rs. 881

Question ID : 630680507574

Option 1 ID : 6306801983738

Option 2 ID : 6306801983739

Option 3 ID : 6306801983737

Option 4 ID : 6306801983740

Status : **Not Answered**

Chosen Option : --

height of cylinder is 47 cm and its radius is 21 cm. Curved surface area of cylinder is:

- 58 cm²
- 90 cm²
- 904 cm²
- 34 cm²

Question ID : 630680507597
 Option 1 ID : 6306801983832
 Option 2 ID : 6306801983830
 Option 3 ID : 6306801983831
 Option 4 ID : 6306801983829

Status : Answered
 Chosen Option : 3

atches A and B of a class. Batch A consists of 40 students and batch B consists of 48 students. Find the average weight of whole class, if average weight of batch A is 36 kg and that of batch B is 38 kg.

- 35 kg
- 37 kg
- 36.1 kg
- 37 kg

Question ID : 630680507571
 Option 1 ID : 6306801983726
 Option 2 ID : 6306801983728
 Option 3 ID : 6306801983727
 Option 4 ID : 6306801983725

Status : Answered
 Chosen Option : 3

amount of Rs 64 times in 2 years, compounded annually at a certain rate of interest. Calculate annual interest rate.

- 10%
- 20%
- 30%
- 40%

Question ID : 630680507573
 Option 1 ID : 6306801983735
 Option 2 ID : 6306801983733
 Option 3 ID : 6306801983734
 Option 4 ID : 6306801983736

Status : Not Answered
 Chosen Option : --

a cone is 64680 cm^3 . If the height of the cone is 140 cm, then find the diameter of its base. (Take $\pi = \frac{22}{7}$)?

- cm
- cm
- cm
- cm

Question ID : 630680507599
 Option 1 ID : 6306801983840
 Option 2 ID : 6306801983837
 Option 3 ID : 6306801983838
 Option 4 ID : 6306801983839

Status : Answered
 Chosen Option : 2

$a=26$, and $c=20$, then find the value of $a^2 + b^2 + c^2 + 2(ab + bc + ca)$.

- 00
- 00
- 0
- 0

Question ID : 630680507591
 Option 1 ID : 6306801983805
 Option 2 ID : 6306801983806
 Option 3 ID : 6306801983807
 Option 4 ID : 6306801983808

Status : Answered
 Chosen Option : 1

25 litres, the ratio of milk and water is 4 : 3. If 4 liters of this mixture is replaced by 4 liters of milk, then : ratio of milk and water in the newly formed mixture?

- : 11
- : 8
- 7
- : 9

Question ID : 630680507585
 Option 1 ID : 6306801983783
 Option 2 ID : 6306801983784
 Option 3 ID : 6306801983782
 Option 4 ID : 6306801983781

Status : Not Answered
 Chosen Option : --

school at a speed of 20 km/h. and walks back home at a speed of 5 km/h. If the school is 20 km away,
his average speed for the round trip?

m/h. hrs.

m/h. hrs.

m/h. hrs.

m/h. hrs.

Question ID : 630680507589

Option 1 ID : 6306801983799

Option 2 ID : 6306801983800

Option 3 ID : 6306801983797

Option 4 ID : 6306801983798

Status : Answered

Chosen Option : 4

number, the second digit and the last digit places are interchanged. The new number thus formed is
original number by 2277. What is the difference between the second and last digit of that number?

Question ID : 630680507592

Option 1 ID : 6306801983812

Option 2 ID : 6306801983811

Option 3 ID : 6306801983809

Option 4 ID : 6306801983810

Status : Not Answered

Chosen Option : --

If $\cos \theta = 1$, then what is the value of $\sin^{88} \theta + \cos^{88} \theta$?

Question ID : 630680507602

Option 1 ID : 6306801983851

Option 2 ID : 6306801983849

Option 3 ID : 6306801983852

Option 4 ID : 6306801983850

Status : Not Answered

Chosen Option : --

playing cards, there are 4 suits (hearts, diamonds, clubs, spades), each with cards numbered 2 through 10, along with a jack, queen, king along with an ace. Consider drawing a single card from the deck. What is the probability of drawing a face card (jack, queen, king)?

Question ID : 630680507594

Option 1 ID : 6306801983820

Option 2 ID : 6306801983818

Option 3 ID : 6306801983817

Option 4 ID : 6306801983819

Status : Answered

Chosen Option : 3

A merchant sells his goods at cost price but uses a weight of 992 grams for a kg. weight. What is his gain percent?

0%

31%

7%

0%

Question ID : 630680507583

Option 1 ID : 6306801983776

Option 2 ID : 6306801983774

Option 3 ID : 6306801983773

Option 4 ID : 6306801983775

Status : Answered

Chosen Option : 2

A batsman makes a score of 92 runs in the 16th inning and increases average by 5. What is his average after 16th

Question ID : 630680507570

Option 1 ID : 6306801983721

Option 2 ID : 6306801983722

subtracted from a number; it reduces to its 60 %. Find the four-fifth of that number.

Question ID : 630680507581
Option 1 ID : 6306801983768
Option 2 ID : 6306801983767
Option 3 ID : 6306801983766
Option 4 ID : 6306801983765

Status : **Not Answered**
Chosen Option : --

sel increases by 14.8 %. Find by how much percent a truck owner must reduce his consumption in order same budget?

- .89%
- 56%
- 42%
- 1%

Question ID : 630680507580
Option 1 ID : 6306801983761
Option 2 ID : 6306801983763
Option 3 ID : 6306801983762
Option 4 ID : 6306801983764

Status : **Not Answered**
Chosen Option : --

between two numbers is 5 : 6 and their LCM is 330. The first number is.

Question ID : 630680507586
Option 1 ID : 6306801983786
Option 2 ID : 6306801983787
Option 3 ID : 6306801983788
Option 4 ID : 6306801983785

Status : **Answered**
Chosen Option : 2

ven below shows the marked price and discount percentage of five different articles.

| Marked price | discount percent |
|--------------|------------------|
| 2500 | 35% |
| 1800 | 40% |
| 1200 | 25% |
| 2000 | 20% |
| 800 | 10% |

erence of selling price of Pant and jeans

- a. 1625
- b. 2265
- c. 900
- d. 725

Question ID : 630680507576

Option 1 ID : 6306801983747

Option 2 ID : 6306801983748

Option 3 ID : 6306801983746

Option 4 ID : 6306801983745

Status : Answered

Chosen Option : 4

lity of getting a bad egg in a lot of 160 is 0.25. The number of bad eggs in the lot is

)

Question ID : 630680507593

Option 1 ID : 6306801983814

Option 2 ID : 6306801983813

Option 3 ID : 6306801983816

Option 4 ID : 6306801983815

Status : Answered

Chosen Option : 3

as efficient as Akansha and takes 36 days less than Akansha to complete the job. Find the time in which
the job together.

- a. 48 days
- b. 36 days
- c. 72 days
- d. 90 days

Question ID : 630680507588

Option 1 ID : 6306801983793

between two parallel lines $3x + 4y + 20 = 0$ and $3x + 4y + 5 = 0$ is given by:

Question ID : 630680507601
Option 1 ID : 6306801983846
Option 2 ID : 6306801983847
Option 3 ID : 6306801983848
Option 4 ID : 6306801983845

Status : Answered
Chosen Option : 1

6 km upstream in 6 hours and comes back same distance in 3 hours. Find the speed of the boat in still

- 8 km/hrs.
- 9 km/hrs.
- 5 km/hrs.
- .5 km/hrs.

Question ID : 630680507590
Option 1 ID : 6306801983801
Option 2 ID : 6306801983803
Option 3 ID : 6306801983804
Option 4 ID : 6306801983802

Status : Answered
Chosen Option : 4

θ to be an acute angle, and $8 \cos^2 \theta - 2 = 0$, then what is the value of $\tan(\theta - 15^\circ)$?

Question ID : 630680507603
Option 1 ID : 6306801983855
Option 2 ID : 6306801983853
Option 3 ID : 6306801983856
Option 4 ID : 6306801983854

Status : Answered
Chosen Option : 2

A can complete a piece of work in 4 days, which 'B' completes it in 7 days and 'C' takes 15 days to complete the same work. How long will they take to complete the work, if they work together?

- 7 days
- 5 days
- 18 days
- 6 days

Question ID : 630680507587
 Option 1 ID : 6306801983789
 Option 2 ID : 6306801983791
 Option 3 ID : 6306801983790
 Option 4 ID : 6306801983792
 Status : Answered
 Chosen Option : 1

How many spherical lead shots each of diameter 7 cm can be obtained from a rectangular solid of lead with dimension 15 cm, (Take $\pi = \frac{22}{7}$)?

- 7
- 9
- 10
- 0

Question ID : 630680507598
 Option 1 ID : 6306801983835
 Option 2 ID : 6306801983836
 Option 3 ID : 6306801983833
 Option 4 ID : 6306801983834
 Status : Answered
 Chosen Option : 4

If the side of a square is increased by 8 cm, then its area is increased by 304 sq. cm. What is the perimeter of original square?

- 12 cm
- 16 cm
- 20 cm
- 24 cm

Question ID : 630680507600
 Option 1 ID : 6306801983844
 Option 2 ID : 6306801983842
 Option 3 ID : 6306801983843
 Option 4 ID : 6306801983841
 Status : Not Answered
 Chosen Option : --

If two number is 110 and the sum of their squares is 264, then the sum of these numbers will be?

Question ID : 630680507595
Option 1 ID : 6306801983822
Option 2 ID : 6306801983824
Option 3 ID : 6306801983821
Option 4 ID : 6306801983823

Status : Not Answered
Chosen Option : --

Given below shows the marked price and discount percentage of five different articles.

| Marked price | discount percent |
|--------------|------------------|
| 2500 | 35% |
| 1800 | 40% |
| 1200 | 25% |
| 2000 | 20% |
| 800 | 10% |

Marked price of trouser.

- a. 2400
- b. 800
- c. 400
- d. 1600

Question ID : 630680507575
Option 1 ID : 6306801983744
Option 2 ID : 6306801983742
Option 3 ID : 6306801983741
Option 4 ID : 6306801983743

Status : Answered
Chosen Option : 4

Find the square root of closest perfect square to 532.

Question ID : 630680507577
Option 1 ID : 6306801983749
Option 2 ID : 6306801983750

o a shop and bought a sofa. She got a 15% discount on it. Had she gotten 20% discount she would have more. How much did she pay for the sofa?

- . 30000
- . 25500
- . 52000
- . 5200

Question ID : 630680507584

Option 1 ID : 6306801983777

Option 2 ID : 6306801983778

Option 3 ID : 6306801983780

Option 4 ID : 6306801983779

Status : **Not Answered**

Chosen Option : --

he roots of the quadratic equation $x^2 - 9x + 20 = 0$, then the value of $\alpha^2 + \beta^2$ is:

Question ID : 630680507596

Option 1 ID : 6306801983828

Option 2 ID : 6306801983826

Option 3 ID : 6306801983827

Option 4 ID : 6306801983825

Status : **Answered**

Chosen Option : 3

received by a person in 13 years on a principal of Rs. 39000 is 130 percent of the principal. What is the interest?

- %
- %
- %
- %

Question ID : 630680507572

Option 1 ID : 6306801983730

Option 2 ID : 6306801983731

Option 3 ID : 6306801983732

Option 4 ID : 6306801983729

Status : **Not Answered**

Chosen Option : --

from the top and 18th from the bottom in the class. How many students are in the class?

Question ID : 630680507368

Option 1 ID : 6306801982915

Option 2 ID : 6306801982916

Option 3 ID : 6306801982914

Option 4 ID : 6306801982913

Status : **Not Answered**

Chosen Option : --

Which of the following options will replace the question mark based on the states and their capital cities?

State: Rajasthan :?

Option 1: Jaipur

Option 2: Bikaner

Option 3: Udaipur

Option 4: Almer

Question ID : 630680507384

Option 1 ID : 6306801982978

Option 2 ID : 6306801982980

Option 3 ID : 6306801982979

Option 4 ID : 6306801982977

Status : **Answered**

Chosen Option : 4

If $N > 0$, then which among the following is correct ?

Question ID : 630680507382

Option 1 ID : 6306801982971

Option 2 ID : 6306801982972

Option 3 ID : 6306801982969

Option 4 ID : 6306801982970

Status : **Answered**

Chosen Option : 3

uch symbols are there in the series which are immediately followed by

.5 B # 4 C 1 L \$ 6 M 7 B 3 \$ M @ 6 K 5 @

Question ID : 630680507377

Option 1 ID : 6306801982952

Option 2 ID : 6306801982949

Option 3 ID : 6306801982951

Option 4 ID : 6306801982950

Status : Answered

Chosen Option : 1

code language, STOP is written as 70 and CROSS is written as 74. How ROAD
n in the same code language?

Question ID : 630680507372

Option 1 ID : 6306801982930

Option 2 ID : 6306801982932

Option 3 ID : 6306801982929

Option 4 ID : 6306801982931

Status : Not Answered

Chosen Option : --

s are removed from the series what will be the 8th element from the left?

6 N 5 1 \$ 7 # H 2 N 4 ^ 3 D & 8 F 1 H \$ %

Question ID : 630680507379

Option 1 ID : 6306801982959

Option 2 ID : 6306801982957

Option 3 ID : 6306801982958

Option 4 ID : 6306801982960

Status : Answered

Chosen Option : 4

following is different from the other three options?

a

b

finger

Question ID : 630680507387

Option 1 ID : 6306801982992

Option 2 ID : 6306801982989

Option 3 ID : 6306801982991

Option 4 ID : 6306801982990

Status : Answered

Chosen Option : 4

multiplied by", 'B' means 'divided by', 'C' means 'minus' and 'D' means "plus"',
If be the value of following expression?

$3 \ 23 \ D \ 7 = ?$

Question ID : 630680507394

Option 1 ID : 6306801983017

Option 2 ID : 6306801983018

Option 3 ID : 6306801983020

Option 4 ID : 6306801983019

Status : Answered

Chosen Option : 3

ers are removed from the series, how many symbols will be left there?

H 9 D & 8 R 3 # 6 K 7 H G D @ S 6 D # 9

Question ID : 630680507380

Option 1 ID : 6306801982961

Option 2 ID : 6306801982962

Option 3 ID : 6306801982963

Option 4 ID : 6306801982964

Status : Answered

Chosen Option : 2

g the following option is correct on the basis of statement and courses of

\ recent report reflected that children below five died in some cities of India diarrhoea.

ction:

nts of India should take adequate measures to improve the hygienic conditions by conduction awareness campaigns.

elow five years in the cities should be periodically checked up by doctors.

II follows

er I nor II follows

I follows

I and II follow

Question ID : 630680507391
Option 1 ID : 6306801983006
Option 2 ID : 6306801983008
Option 3 ID : 6306801983005
Option 4 ID : 6306801983007
Status : Not Answered
Chosen Option : --

g the following option is correct on the basis of statement and courses of

he sale of a particular product of a company has considerably increased ight efforts made by the company.

ction:

ny should make a proper study of reasons for the success of the product.

any should accrue some bonus to the every employee.

I and II follow

I follows

II follows

er I nor II follows

Question ID : 630680507390
Option 1 ID : 6306801983003
Option 2 ID : 6306801983001
Option 3 ID : 6306801983002
Option 4 ID : 6306801983004
Status : Not Answered
Chosen Option : --

in's father's brother's wife's mother-in-law related to Sachin?

dmother

er

rnal grandmother

er in law

Question ID : 630680507373

Option 1 ID : 6306801982933

Option 2 ID : 6306801982936

Option 3 ID : 6306801982934

Option 4 ID : 6306801982935

Status : **Not Answered**

Chosen Option : --

boys, Shonit is ranked 10th from either side. How many boys are there in the

Question ID : 630680507369

Option 1 ID : 6306801982918

Option 2 ID : 6306801982920

Option 3 ID : 6306801982919

Option 4 ID : 6306801982917

Status : **Answered**

Chosen Option : 2

rendra, Mohit, Sudesh, Amrit and Ronit are standing in a line from North to
sh is standing between Amrit and Ronit. Ronit is standing between Sudesh and
endra is standing at the north end, then who is standing at the south end of the

it

ndra

:

sh

Question ID : 630680507367

Option 1 ID : 6306801982910

Option 2 ID : 6306801982912

Option 3 ID : 6306801982909

Option 4 ID : 6306801982911

Status : **Not Answered**

Chosen Option : --

g the following option will replace the question mark on the basis sports and 1?

1 : Hockey :: Baichung Bhutia :?

ball

ey

et

is

Question ID : 630680507385
 Option 1 ID : 6306801982983
 Option 2 ID : 6306801982982
 Option 3 ID : 6306801982981
 Option 4 ID : 6306801982984
 Status : Not Answered
 Chosen Option : --

ne in the place of question marks (??) to make the following series logically

7, S 81 ??

3

13

3

3

Question ID : 630680507389
 Option 1 ID : 6306801983000
 Option 2 ID : 6306801982999
 Option 3 ID : 6306801982997
 Option 4 ID : 6306801982998
 Status : Answered
 Chosen Option : 2

statement given below, identify the total amount spent by a state in a year.

- The state sold 5 articles worth Rs 5000 in a year.

:- The state sold 10000 pieces of clothing worth Rs. 3000 in a year.

statement II is required to answer.

the statements are insufficient to answer.

statement I is required to answer.

Statement I and Statement II are required to answer the question.

Question ID : 630680507388
 Option 1 ID : 6306801982995
 Option 2 ID : 6306801982996
 Option 3 ID : 6306801982993
 Option 4 ID : 6306801982994
 Status : Not Answered

ne in place of the question marks (?) to make the series given below logically

5, 21, 29, 25, ??

3

6

9

8

Question ID : 630680507395

Option 1 ID : 6306801983021

Option 2 ID : 6306801983023

Option 3 ID : 6306801983022

Option 4 ID : 6306801983024

Status : Answered

Chosen Option : 3

Harsh is 5th from the top in a group of 31 candidates and 3 new candidates
st before and after him, what will be his new rank from bottom?

Question ID : 630680507370

Option 1 ID : 6306801982921

Option 2 ID : 6306801982923

Option 3 ID : 6306801982924

Option 4 ID : 6306801982922

Status : Answered

Chosen Option : 1

following pair is similar to the expression below?

37

12

120

843

Question ID : 630680507398

Option 1 ID : 6306801983035

Option 2 ID : 6306801983034

Option 3 ID : 6306801983033

Option 4 ID : 6306801983036

Status : Not Answered

Chosen Option : --

uch letters are there in the series which are immediately preceded by numbers?

6 # F % G & * N 6 A 3 \$ G @ 5 F 3 @ H 3

Question ID : 630680507378

Option 1 ID : 6306801982954

Option 2 ID : 6306801982953

Option 3 ID : 6306801982956

Option 4 ID : 6306801982955

Status : Answered

Chosen Option : 2

g the following option is correct on the basis of the statements and conclusions

Statement is based on heights of 5 person namely Sunil,Rahul
sh,Mansi)?

Sunil>Rahul>Rakesh>Vikash>Mansi

:- Vikas is Shorter than Rakesh.

I:- Mansi is Shorter than Vikas.

II conclusion follow

er conclusion I nor II

I conclusion follow

conclusion I and II

Question ID : 630680507383

Option 1 ID : 6306801982974

Option 2 ID : 6306801982976

Option 3 ID : 6306801982973

Option 4 ID : 6306801982975

Status : Answered

Chosen Option : 3

uch numbers are there in the series which are immediately preceded by

J 4 N @ 6 J \$ 6 % N 3 F 3 G 1 \$ 8 D 5 4 G L \$ ^

Question ID : 630680507381

Option 1 ID : 6306801982967

Option 2 ID : 6306801982968

Option 3 ID : 6306801982966

Option 4 ID : 6306801982965

Status : Answered

following option will replace the question mark?

'6 : ?

Question ID : 630680507397

Option 1 ID : 6306801983029

Option 2 ID : 6306801983031

Option 3 ID : 6306801983032

Option 4 ID : 6306801983030

Status : Answered

Chosen Option : 4

multiplied by", 'B' means 'divided by', 'C' means 'minus' and 'D' means "plus" ',
ll be the value of following expression?

9 D 8 = ?

Question ID : 630680507393

Option 1 ID : 6306801983014

Option 2 ID : 6306801983013

Option 3 ID : 6306801983015

Option 4 ID : 6306801983016

Status : Answered

Chosen Option : 1

following pair is similar to the expression below?

1 : 23

2 : 23

3 : 33

5 : 23

Question ID : 630680507399

Option 1 ID : 6306801983039

Option 2 ID : 6306801983040

Option 3 ID : 6306801983037

Option 4 ID : 6306801983038

Status : Answered

Chosen Option : 4

multiplied by", 'B' means 'divided by', 'C' means 'minus' and 'D' means "plus" ',
 ll be the value of following expression?

$$3 \ 5 \ D \ 3 = ?$$

Question ID : 630680507392

Option 1 ID : 6306801983011

Option 2 ID : 6306801983009

Option 3 ID : 6306801983010

Option 4 ID : 6306801983012

Status : Answered

Chosen Option : 4

en statement(s) and conclusions carefully. Assuming that the information given
 ents is true, even if it appears to be at variance with commonly known facts,
 1 of the given conclusions logically follow(s) from the statement(s).

are bread.
 r are bread.
 in are burger.

:
 a are burger.
 ads are pasta
 ad are pumpkin.

III

II and III

I and III

I

Question ID : 630680507375

Option 1 ID : 6306801982942

Option 2 ID : 6306801982941

Option 3 ID : 6306801982944

Option 4 ID : 6306801982943

Status : Not Answered

Chosen Option : --

ne in place of the question marks (?) to make the series given below logically

, 49, 59, 72, ??

- 4
- 4
- 5
- 2

Question ID : 630680507396
 Option 1 ID : 6306801983026
 Option 2 ID : 6306801983025
 Option 3 ID : 6306801983028
 Option 4 ID : 6306801983027
 Status : Answered
 Chosen Option : 3

rendra, Mohit, Sudesh, Amrit and Ronit are standing in a line from North to
 sh is standing between Amrit and Ronit. Ronit is standing between Sudesh and
 endra is standing at the north end, then who is standing in the middle of the

- ndra
- t
- :
- sh

Question ID : 630680507366
 Option 1 ID : 6306801982908
 Option 2 ID : 6306801982906
 Option 3 ID : 6306801982905
 Option 4 ID : 6306801982907
 Status : Not Answered
 Chosen Option : --

code language, TABLE is written as ELBAT and CHAIR is written as RIAHC. How
 written in the same code language?

- :
- :
-)
- S

Question ID : 630680507371
 Option 1 ID : 6306801982927
 Option 2 ID : 6306801982928
 Option 3 ID : 6306801982926
 Option 4 ID : 6306801982925
 Status : Answered
 Chosen Option : 4

en statement(s) and conclusions carefully. Assuming that the information given
ents is true, even if it appears to be at variance with commonly known facts,
1 of the given conclusions logically follow(s) from the statement(s).

are grapes.
s are sauces.
s are apricots.

:
s are sauces.
es are apricots.
icots are sauces.
icots are grapes.

- II
- I
- III
- IV

Question ID : 630680507374
 Option 1 ID : 6306801982938
 Option 2 ID : 6306801982937
 Option 3 ID : 6306801982939
 Option 4 ID : 6306801982940
 Status : **Not Answered**
 Chosen Option : --

1 is different from the other three options on the basis of cities and their
ountries?

- York
- ow
- ut
- graj

Question ID : 630680507386
 Option 1 ID : 6306801982988
 Option 2 ID : 6306801982985
 Option 3 ID : 6306801982986
 Option 4 ID : 6306801982987
 Status : **Answered**
 Chosen Option : 1

1 after sunrise, Smita was standing facing a wall. The shadow of the pole was
er left side. Which direction was Smita facing?

- h
- 1

Question ID : 630680507376
 Option 1 ID : 6306801982915

knowledge

Which of the following is method of size reduction in the context of mechanical operations?

Crushing

Both I and II

Neither I nor II

Only I

Only II

Question ID : 630680506791

Option 1 ID : 6306801980671

Option 2 ID : 6306801980672

Option 3 ID : 6306801980669

Option 4 ID : 6306801980670

Status : Answered

Chosen Option : 1

Which of the following can be used in manufacturing of _____.

Crushing

Both I and II

Only I

Only II

Neither I nor II

Question ID : 630680506846

Option 1 ID : 6306801980891

Option 2 ID : 6306801980889

Option 3 ID : 6306801980890

Option 4 ID : 6306801980892

Status : Answered

Chosen Option : 1

attering can be measured for particles of size range of _____.

l – 10 μm

005 – 0.1 μm

ore than 50 μm

– 35 μm

Question ID : 630680506798

Option 1 ID : 6306801980697

Option 2 ID : 6306801980699

Option 3 ID : 6306801980700

Option 4 ID : 6306801980698

Status : Not Answered

Chosen Option : --

of the following is the type of reactors?

ar reactor

d – flow reactor

ly I

th I and II

ly II

ither I nor II

Question ID : 630680506817

Option 1 ID : 6306801980773

Option 2 ID : 6306801980775

Option 3 ID : 6306801980774

Option 4 ID : 6306801980776

Status : Answered

Chosen Option : 2

xtinguisher, black coloured band indicates _____.

m

ter

rbon-di-oxide

t chemical

Question ID : 630680506837

Option 1 ID : 6306801980854

Option 2 ID : 6306801980853

Option 3 ID : 6306801980855

Separating agent is used in crystallization process?

Water

Inert gas

Membrane

Ion exchange resins

Question ID : 630680506778

Option 1 ID : 6306801980618

Option 2 ID : 6306801980620

Option 3 ID : 6306801980617

Option 4 ID : 6306801980619

Status : Answered

Chosen Option : 1

If fluid is stationary, then which of the following will be correct regarding velocity (v) of fluid at the boundary?

$v < 15$

$v = 0$

$v < 35$

$v \leq 20$

Question ID : 630680506797

Option 1 ID : 6306801980694

Option 2 ID : 6306801980693

Option 3 ID : 6306801980695

Option 4 ID : 6306801980696

Status : Answered

Chosen Option : 2

In order to assess the environmental conditions and trends, support policy development and its implementation and provide information for reporting to national policymakers interactions forums and public.

Environmental control

Environmental monitoring

Environmental utilization

Environmental transboundary

Question ID : 630680506855

Option 1 ID : 6306801980925

Option 2 ID : 6306801980926

Option 3 ID : 6306801980927

Option 4 ID : 6306801980928

Status : Not Answered

Chosen Option : --

Which of the following is the part of fire extinguishers?

Large hose

Pressure indicator gauge

Neither I nor II

Only I

Only II

Both I and II

Question ID : 630680506838

Option 1 ID : 6306801980860

Option 2 ID : 6306801980857

Option 3 ID : 6306801980858

Option 4 ID : 6306801980859

Status : Not Answered

Chosen Option : --

Which of the following is used in a local closed loop system for maintaining water at a set temperature?

Automatic control

Level control

Temperature control

Contractors

Question ID : 630680506813

Option 1 ID : 6306801980757

Option 2 ID : 6306801980758

Option 3 ID : 6306801980759

Option 4 ID : 6306801980760

Status : Answered

Chosen Option : 1

In liquid extraction, the residual feed stream that may have a little of the solute left in it is called the _____.

Volatility

Effinate

Factor

Stillate

Question ID : 630680506777

Option 1 ID : 6306801980613

Option 2 ID : 6306801980615

Option 3 ID : 6306801980614

Option 4 ID : 6306801980616

In the context of Hazards identification, which of the following is the type of safety review?

- Neither I nor II
- Both I and II
- Only II
- Only I

Question ID : 630680506835

Option 1 ID : 6306801980848

Option 2 ID : 6306801980847

Option 3 ID : 6306801980846

Option 4 ID : 6306801980845

Status : Not Answered

Chosen Option : --

Which of the following is an example of simulation?

- Weather forecasting
- Use of simulators used for training pilots.
- Both I and II
- Only I
- Neither I nor II
- Only II

Question ID : 630680506842

Option 1 ID : 6306801980875

Option 2 ID : 6306801980873

Option 3 ID : 6306801980876

Option 4 ID : 6306801980874

Status : Answered

Chosen Option : 1

Which of the following is an application of membrane separation?

Concentration of fruit juice.

Distillation of absolute alcohol.

Neither I nor II

Only I

Only II

Both I and II

Question ID : 630680506779

Option 1 ID : 6306801980624

Option 2 ID : 6306801980621

Option 3 ID : 6306801980622

Option 4 ID : 6306801980623

Status : Not Answered

Chosen Option : --

The unit of entropy is _____.

J

K/J

kJ

kJ/K

Question ID : 630680506804

Option 1 ID : 6306801980723

Option 2 ID : 6306801980724

Option 3 ID : 6306801980721

Option 4 ID : 6306801980722

Status : Answered

Chosen Option : 3

Which is used when we need a product with properties in between the untreated process stream and the process

Material balance

Modifier

Distillation

Two-pass

Question ID : 630680506806

Option 1 ID : 6306801980732

Option 2 ID : 6306801980730

Which of the following is the type of simulation models?

Discrete models

Continuous models

Both I and II

Only I

Only II

Neither I nor II

Question ID : 630680506839

Option 1 ID : 6306801980863

Option 2 ID : 6306801980861

Option 3 ID : 6306801980862

Option 4 ID : 6306801980864

Status : Answered

Chosen Option : 3

Which of the following is an objective of size reduction in the context of mechanical operations?

Reduce solid waste easily

Reduce the handling

Neither I nor II

Only I

Both I and II

Only II

Question ID : 630680506790

Option 1 ID : 6306801980668

Option 2 ID : 6306801980665

Option 3 ID : 6306801980667

Option 4 ID : 6306801980666

Status : Answered

Chosen Option : 4

erse of mass transfer coefficient is known as _____.

- olar flux
- ncentration driving force
- ass transfer resistance
- ss flux

Question ID : 630680506775

Option 1 ID : 6306801980606

Option 2 ID : 6306801980608

Option 3 ID : 6306801980605

Option 4 ID : 6306801980607

Status : Answered

Chosen Option : 3

unit of mass of transfer coefficient is same as _____.

- omentum
- locity
- eleration
- ce

Question ID : 630680506774

Option 1 ID : 6306801980601

Option 2 ID : 6306801980604

Option 3 ID : 6306801980603

Option 4 ID : 6306801980602

Status : Not Answered

Chosen Option : --

of the following is the strategies used for decarbonizing?

- y efficiency
- trical electrification
- oth I and II
- ly II
- ly I
- ither I nor II

Question ID : 630680506854

Option 1 ID : 6306801980923

Option 2 ID : 6306801980922

Option 3 ID : 6306801980921

laminar flow changes to turbulent flow when _____.

Reynolds number is increased

Viscosity of fluid is decreased

Both I and II

Neither I nor II

Only I

Question ID : 630680506793

Option 1 ID : 6306801980678

Option 2 ID : 6306801980679

Option 3 ID : 6306801980680

Option 4 ID : 6306801980677

Status : Answered

Chosen Option : 2

Fluid in which the shear stress is directly proportional to the rate of shear strain, is known as _____.

Newtonian fluid

Non-newtonian fluid

Newtonian fluid

Ideal fluid

Question ID : 630680506795

Option 1 ID : 6306801980685

Option 2 ID : 6306801980687

Option 3 ID : 6306801980688

Option 4 ID : 6306801980686

Status : Answered

Chosen Option : 3

reaction depends upon _____.

ature

yst

oth I and II

ither I nor II

ly I

ly II

Question ID : 630680506822

Option 1 ID : 6306801980795

Option 2 ID : 6306801980796

Option 3 ID : 6306801980793

Option 4 ID : 6306801980794

Status : Answered

Chosen Option : 3

Devices that detect physical variables such as temperature, light intensity or motion.

sors

trument

point

nverters

Question ID : 630680506808

Option 1 ID : 6306801980739

Option 2 ID : 6306801980738

Option 3 ID : 6306801980737

Option 4 ID : 6306801980740

Status : Answered

Chosen Option : 3

ic acid can be used in _____.

es

zers

th I and II

ither I nor II

ly II

ly I

Question ID : 630680506844
Option 1 ID : 6306801980883
Option 2 ID : 6306801980884
Option 3 ID : 6306801980882
Option 4 ID : 6306801980881

Status : Answered

Chosen Option : 1

ynold number is more than 4000, then the flow is _____.

inar

bulent

ady

ational

Question ID : 630680506794
Option 1 ID : 6306801980682
Option 2 ID : 6306801980681
Option 3 ID : 6306801980683
Option 4 ID : 6306801980684

Status : Answered

Chosen Option : 2

the range of Prandtl number (Pr) for water?

to 1.0

to 13.7

04 to 0.0030

to 100

Question ID : 630680506788
Option 1 ID : 6306801980660
Option 2 ID : 6306801980659
Option 3 ID : 6306801980658

the process of reducing 'carbon intensity', lowering the amount of greenhouse gas emissions produced of fossil fuels.

re-carbonization

net-Zero

partial modular reaction

re-carbonization

Question ID : 630680506856

Option 1 ID : 6306801980929

Option 2 ID : 6306801980931

Option 3 ID : 6306801980932

Option 4 ID : 6306801980930

Status : **Marked For Review**

Chosen Option : 2

convection is caused by buoyancy forces, then this type of convection is known as _____.

natural convection

forced convection

induced convection

restricted convection

Question ID : 630680506783

Option 1 ID : 6306801980637

Option 2 ID : 6306801980639

Option 3 ID : 6306801980640

Option 4 ID : 6306801980638

Status : **Answered**

Chosen Option : 2

for a heat engine to produce network in a complete cycle if it exchanges heat only with bodies at a temperature. As per the context of second law of thermodynamics, above statement was given by _____.

Stirling – wheel

Carnot

Planck – Planck

Stirling

Question ID : 630680506801

Option 1 ID : 6306801980712

Option 2 ID : 6306801980711

Option 3 ID : 6306801980709

Option 4 ID : 6306801980710

Status : **Answered**

Chosen Option : 3

tical models can be useful in _____.

ch and development

n

t operation

ly II and III

ly I and III

ly I and II

II and III

Question ID : 630680506841

Option 1 ID : 6306801980870

Option 2 ID : 6306801980871

Option 3 ID : 6306801980869

Option 4 ID : 6306801980872

Status : Answered

Chosen Option : 4

f non-ideal flow reactors, it is often not necessary to know the details of the entire flow field but rather fluid elements reside in the reactor i.e. called _____.

istribution of olefins time

istribution of regression times

ispersion of radial times

istribution of residence times

Question ID : 630680506819

Option 1 ID : 6306801980784

Option 2 ID : 6306801980782

Option 3 ID : 6306801980783

Option 4 ID : 6306801980781

Status : Answered

Chosen Option : 4

In classical controllers, reset action is also known as _____.

- proportional
- proportional integral
- proportional integral derivative
- proportional action

Question ID : 630680506810

Option 1 ID : 6306801980746

Option 2 ID : 6306801980748

Option 3 ID : 6306801980747

Option 4 ID : 6306801980745

Status : Answered

Chosen Option : 2

Which of the following is true regarding cash flow for industrial operation?

Capital reservoirs normally are in the form of loans, stock issue and cash flow from project operations

Capital reservoirs are in the form of capital investment in projects, dividends to stockholders

- Only I
- Both I and II
- Only II
- Neither I nor II

Question ID : 630680506826

Option 1 ID : 6306801980809

Option 2 ID : 6306801980811

Option 3 ID : 6306801980810

Option 4 ID : 6306801980812

Status : Marked For Review

Chosen Option : 1

Which of the following is another name of rate law?

Rate equation

Rate expression

Only I

Either I or II

Only II

Both I and II

Question ID : 630680506821

Option 1 ID : 6306801980789

Option 2 ID : 6306801980792

Option 3 ID : 6306801980790

Option 4 ID : 6306801980791

Status : Answered

Chosen Option : 4

Which stream leaving a processing unit is partly returned to the same unit for reusing is known as _____.

Recycled

Returned

Processing

Cycle

Question ID : 630680506803

Option 1 ID : 6306801980720

Option 2 ID : 6306801980718

Option 3 ID : 6306801980717

Option 4 ID : 6306801980719

Status : Not Answered

Chosen Option : --

oric acid can be manufactured by _____.

horus pentachloride

phorous pentoxide

ly II

ly I

ither I nor II

th I and II

Question ID : 630680506847

Option 1 ID : 6306801980894

Option 2 ID : 6306801980893

Option 3 ID : 6306801980896

Option 4 ID : 6306801980895

Status : **Not Answered**

Chosen Option : --

yl chloride can be used in manufacturing of _____.

at

bag

r pipes

ly I and II

II and III

ly I and III

ly II and III

Question ID : 630680506848

Option 1 ID : 6306801980897

Option 2 ID : 6306801980900

Option 3 ID : 6306801980899

Option 4 ID : 6306801980898

Status : **Answered**

Chosen Option : 2

_____ acid with a strength of over 100 wt% is referred to as _____.

- phosphorus trioxide
- chromic acid
- osmium tetroxide
- oleum
- concentrated sulfuric acid

Question ID : 630680506843

Option 1 ID : 6306801980877

Option 2 ID : 6306801980880

Option 3 ID : 6306801980879

Option 4 ID : 6306801980878

Status : Not Answered

Chosen Option : --

_____ the importance of renewable energy?

- reducing greenhouse gas emission
- diversifying energy supply
- either I nor II
- neither I nor II
- both I and II

Question ID : 630680506852

Option 1 ID : 6306801980916

Option 2 ID : 6306801980913

Option 3 ID : 6306801980914

Option 4 ID : 6306801980915

Status : Not Answered

Chosen Option : --

In a _____ isolated system, entropy can be _____.

- greater than zero
- equal to zero
- greater than or equal to zero
- less than zero

Question ID : 630680506805

Option 1 ID : 6306801980727

Option 2 ID : 6306801980725

Of the following is/are the methods for calculating profitability?

I. Return on investment

II. Payback period

III. Payback period

IV. Both I and II

V. Both I and II

VI. Both I and II

Question ID : 630680506829

Option 1 ID : 6306801980821

Option 2 ID : 6306801980824

Option 3 ID : 6306801980823

Option 4 ID : 6306801980822

Status : Answered

Chosen Option : 3

Of the following materials is used for construction of plant?

I. Cement

II. Sand

III. Both I and II

IV. Both I and II

V. Both I and II

VI. Both I and II

Question ID : 630680506833

Option 1 ID : 6306801980840

Option 2 ID : 6306801980838

Option 3 ID : 6306801980837

Option 4 ID : 6306801980839

Status : Not Answered

Chosen Option : --

overall order of a reaction which has rate expression i.e. $\text{Rate} = k[A]^{3/2}[B]^{1/2}$?

Question ID : 630680506823

Option 1 ID : 6306801980797

Option 2 ID : 6306801980799

Option 3 ID : 6306801980798

Option 4 ID : 6306801980800

Status : Answered

Chosen Option : 2

of the following is the important factor for plant location?

materials

transportation facilities

only I

either I nor II

both I and II

only II

Question ID : 630680506830

Option 1 ID : 6306801980825

Option 2 ID : 6306801980828

Option 3 ID : 6306801980827

Option 4 ID : 6306801980826

Status : Answered

Chosen Option : 4

Of the following is NOT a type of capital cost estimates?

Primary estimate

Secondary estimate

Both I and II

Neither I nor II

Only I

Only II

Question ID : 630680506827

Option 1 ID : 6306801980815

Option 2 ID : 6306801980814

Option 3 ID : 6306801980813

Option 4 ID : 6306801980816

Status : Not Answered

Chosen Option : --

Of the following is the properties of ammonia?

Colorless gas

Has an egg smell

Only I

Only II

Both I and II

Neither I nor II

Question ID : 630680506845

Option 1 ID : 6306801980885

Option 2 ID : 6306801980886

Option 3 ID : 6306801980887

Option 4 ID : 6306801980888

Status : Not Answered

Chosen Option : --

ormal rating systems that provide penalties for safety equipment and procedure.

ow index

gal index

neological index

rtorial index

Question ID : 630680506834

Option 1 ID : 6306801980843

Option 2 ID : 6306801980841

Option 3 ID : 6306801980842

Option 4 ID : 6306801980844

Status : Not Answered

Chosen Option : --

of the following is a type of fluids?

fluid

plastic fluid

ly II

ly I

th I and II

ither I nor II

Question ID : 630680506796

Option 1 ID : 6306801980690

Option 2 ID : 6306801980689

Option 3 ID : 6306801980691

Option 4 ID : 6306801980692

Status : Answered

Chosen Option : 3

us reaction, the units of the rate of reaction are _____.

1 $L^{-1}s^{-1}$

2 $L^{-1}s^{-1}$

3 L^{-1}

4 s^{-1}

Question ID : 630680506820

Option 1 ID : 6306801980788

Option 2 ID : 6306801980787

Devices that monitor signals from transducers and take the necessary action to keep the process within limits.

- Proportional controllers
- Integral controllers
- Differential controllers
- On-off controllers

Question ID : 630680506815

Option 1 ID : 6306801980767

Option 2 ID : 6306801980766

Option 3 ID : 6306801980768

Option 4 ID : 6306801980765

Status : Answered

Chosen Option : 2

Which of the following monomers is used for preparation of polyvinyl chloride?

Chloroacetylene

;

- Either I nor II
- Only I
- Both I and II
- Only II

Question ID : 630680506849

Option 1 ID : 6306801980904

Option 2 ID : 6306801980901

Option 3 ID : 6306801980903

Option 4 ID : 6306801980902

Status : Answered

Chosen Option : 2

In the context of first law of thermodynamics, energy can be in _____.

;

ly II

both I and II

ly I

either I nor II

Question ID : 630680506799

Option 1 ID : 6306801980702

Option 2 ID : 6306801980703

Option 3 ID : 6306801980701

Option 4 ID : 6306801980704

Status : Answered

Chosen Option : 3

Transfer coefficient depends on _____.

Concentration driving force (ΔC_A)

Transfer flux (N_A)

both I and II

ly I

either I nor II

ly II

Question ID : 630680506776

Option 1 ID : 6306801980611

Option 2 ID : 6306801980609

Option 3 ID : 6306801980612

Option 4 ID : 6306801980610

Status : Answered

Chosen Option : 1

of the following is type of heat exchangers?

e – pipe heat exchanger

compact heat exchanger

either I nor II

only I

both I and II

only II

Question ID : 630680506789

Option 1 ID : 6306801980664

Option 2 ID : 6306801980661

Option 3 ID : 6306801980663

Option 4 ID : 6306801980662

Status : Answered

Chosen Option : 3

For ideal gas, fugacity has the same dimensions as _____.

Pressure

Force

Area

Momentum

Question ID : 630680506807

Option 1 ID : 6306801980735

Option 2 ID : 6306801980736

Option 3 ID : 6306801980734

Option 4 ID : 6306801980733

Status : Not Answered

Chosen Option : --

Of the following is the factor for plant layout?

I and safety consideration

II availability

Both I and II

Only II

Only I

Neither I nor II

Question ID : 630680506831

Option 1 ID : 6306801980831

Option 2 ID : 6306801980830

Option 3 ID : 6306801980829

Option 4 ID : 6306801980832

Status : **Not Answered**

Chosen Option : --

Of the following is an example of evaporation?

Drying of vegetables

Rejection of waste heat in wet cooling towers

Neither I nor II

Both I and II

Only I

Only II

Question ID : 630680506780

Option 1 ID : 6306801980628

Option 2 ID : 6306801980627

Option 3 ID : 6306801980625

Option 4 ID : 6306801980626

Status : **Not Answered**

Chosen Option : --

In the context of radiation, what is the range of emissivity(ϵ)?

- a) $\epsilon < 1$
- b) $\epsilon < 1$
- c) $\epsilon \leq 1$
- d) $\epsilon \leq 1$

Question ID : 630680506786

Option 1 ID : 6306801980652

Option 2 ID : 6306801980650

Option 3 ID : 6306801980651

Option 4 ID : 6306801980649

Status : Answered

Chosen Option : 4

A method of size reduction by rubbing or scrubbing the materials between two hand surfaces.

- a) Abrasion
- b) Attrition
- c) Comminution
- d) Grinding

Question ID : 630680506792

Option 1 ID : 6306801980674

Option 2 ID : 6306801980673

Option 3 ID : 6306801980676

Option 4 ID : 6306801980675

Status : Answered

Chosen Option : 1

Which of the following is the part of fire triangle?

- a) Fuel
 - b) Oxidizer
 - c) Heat
 - d) Ignition source
- Options:
- a) Only I and III
 - b) Only I and II
 - c) Only II and III
 - d) I and III

Question ID : 630680506836

According to Fick's law, the SI unit of diffusion coefficient is _____.

s^2

m^2/s

m/s

m^2/s^2

Question ID : 630680506773

Option 1 ID : 6306801980598

Option 2 ID : 6306801980597

Option 3 ID : 6306801980599

Option 4 ID : 6306801980600

Status : Answered

Chosen Option : 2

Which of the following is an elemental composition of petrochemicals?

I

Hydrogen

Oxygen

Only II and III

Only I and II

I and III

Only I and III

Question ID : 630680506850

Option 1 ID : 6306801980906

Option 2 ID : 6306801980905

Option 3 ID : 6306801980908

Option 4 ID : 6306801980907

Status : Answered

Chosen Option : 2

Which of the following is the cause of irreversibility in second law of thermodynamics?

- Equilibrium
- Presence of dissipative effects
- Neither I nor II
- Both I and II
- Only I
- Only II

Question ID : 630680506802
Option 1 ID : 6306801980716
Option 2 ID : 6306801980715
Option 3 ID : 6306801980713
Option 4 ID : 6306801980714
Status : Not Answered
Chosen Option : --

Which of the following is the best numerical method, solution of simultaneous nonlinear algebraic equations usually done by _____.

- Continuity method
- Iterative method
- Newton-Raphson method
- Integration method

Question ID : 630680506840
Option 1 ID : 6306801980868
Option 2 ID : 6306801980867
Option 3 ID : 6306801980866
Option 4 ID : 6306801980865
Status : Answered
Chosen Option : 2

Which of the following is developed in an attempt to reduce the correction time that would have occurred using proportional action?

- Proportional
- Proportional output
- Proportional derivative
- Proportional integral

Question ID : 630680506811
Option 1 ID : 6306801980751
Option 2 ID : 6306801980750
Option 3 ID : 6306801980749
Option 4 ID : 6306801980752

Unit of joule's experiment in first law of thermodynamics, the SI unit of constant of proportionality (J) is

- m-J
- /m
- mJ
- n/J

Question ID : 630680506800
Option 1 ID : 6306801980706
Option 2 ID : 6306801980708
Option 3 ID : 6306801980707
Option 4 ID : 6306801980705
Status : Not Answered
Chosen Option : --

Which of the following is the factor that affects the investment and production costs?

- Cost of equipment
- Market situation
- Government policies
- Only II and III
- Only I and III
- Only I and II
- Only II and III

Question ID : 630680506825
Option 1 ID : 6306801980806
Option 2 ID : 6306801980807
Option 3 ID : 6306801980805
Option 4 ID : 6306801980808
Status : Answered
Chosen Option : 1

Which of the following separation processes is used for separation of air?

- Distillation – exchange
- Crystallization
- Distillation
- Crystallization

Question ID : 630680506772
Option 1 ID : 6306801980594

index value for a given time showing the cost at that time relative to certain base time.

- 1st index
- 2nd index
- 3rd index
- 4th index

Question ID : 630680506828
Option 1 ID : 6306801980817
Option 2 ID : 6306801980820
Option 3 ID : 6306801980819
Option 4 ID : 6306801980818
Status : Answered
Chosen Option : 1

Phenomena in which chemical reactions occur are called _____.

- 1. Kinetics
- 2. Factors
- 3. Analysis
- 4. Reaction rate

Question ID : 630680506816
Option 1 ID : 6306801980772
Option 2 ID : 6306801980769
Option 3 ID : 6306801980770
Option 4 ID : 6306801980771
Status : Answered
Chosen Option : 2

In the context of chemical kinetics, hydrogenation of ethane is an example of _____.

- 1. 1st order reaction
- 2. 2nd order reaction
- 3. 3rd order reaction
- 4. 4th order reaction

Question ID : 630680506824
Option 1 ID : 6306801980803
Option 2 ID : 6306801980801
Option 3 ID : 6306801980804
Option 4 ID : 6306801980802
Status : Not Answered
Chosen Option : --

n over the surface in which the temperature variation in the directional normal to the surface is called

- 1-boundary line
- oundary line
- ermal boundary layer
- dro boundary layer

Question ID : 630680506787
 Option 1 ID : 6306801980655
 Option 2 ID : 6306801980654
 Option 3 ID : 6306801980653
 Option 4 ID : 6306801980656
 Status : Answered
 Chosen Option : 3

following is the correct pair about equipment and their sound level(dBA) at a distance of 1 m?

- s – 90 to 120
- 120 to 210
- ly II
- th I and II
- ither I nor II
- ly I

Question ID : 630680506832
 Option 1 ID : 6306801980834
 Option 2 ID : 6306801980835
 Option 3 ID : 6306801980836
 Option 4 ID : 6306801980833
 Status : Not Answered
 Chosen Option : --

c rate at which a catalytic cycle turns over on an active site is called _____.

- face reaction
- orption
- rover frequency
- orption

Question ID : 630680506818
 Option 1 ID : 6306801980778
 Option 2 ID : 6306801980777
 Option 3 ID : 6306801980780
 Option 4 ID : 6306801980779

Which of the following is NOT the type of environmental monitoring?

Monitoring

Environmental monitoring

Neither I nor II

Both I and II

Only I

Only II

Question ID : 630680506853

Option 1 ID : 6306801980920

Option 2 ID : 6306801980919

Option 3 ID : 6306801980917

Option 4 ID : 6306801980918

Status : Not Answered

Chosen Option : --

Which of the following is NOT a type of boiling?

Boiling

Evaporation

Only II

Only I

Both I and II

Neither I nor II

Question ID : 630680506781

Option 1 ID : 6306801980630

Option 2 ID : 6306801980629

Option 3 ID : 6306801980631

Option 4 ID : 6306801980632

Status : Answered

Chosen Option : 1

Following are required to the presence of an intervening medium for the transfer of heat?

- n
- o
- ly I and III
- ly II and III
- I and III
- ly I and II

Question ID : 630680506785
 Option 1 ID : 6306801980647
 Option 2 ID : 6306801980646
 Option 3 ID : 6306801980648
 Option 4 ID : 6306801980645
 Status : **Not Attempted and Marked For Review**
 Chosen Option : --

Automatic control of an output variable by sensing the amplitude of the output parameter from the process
 it to the desired level.

- rocess control
- ontrol loop
- tuators
- erators

Question ID : 630680506812
 Option 1 ID : 6306801980755
 Option 2 ID : 6306801980756
 Option 3 ID : 6306801980754
 Option 4 ID : 6306801980753
 Status : **Answered**
 Chosen Option : 2

Unit of convection heat transfer coefficient is _____.

- K/m^2
- m^2/K
- W/mK^2
- m^2K

Question ID : 630680506784
 Option 1 ID : 6306801980643

Which of the following is the type of renewable energy?

Solar energy

Wind energy

Hydroly I

Both I and II

Neither I nor II

Hydroly II

Question ID : 630680506851

Option 1 ID : 6306801980909

Option 2 ID : 6306801980911

Option 3 ID : 6306801980912

Option 4 ID : 6306801980910

Status : Answered

Chosen Option : 2

Which are devices that can change one form of energy to another?

Transducers

Generators

Inverters

Controllers

Question ID : 630680506809

Option 1 ID : 6306801980741

Option 2 ID : 6306801980743

Option 3 ID : 6306801980742

Option 4 ID : 6306801980744

Status : Answered

Chosen Option : 4

Evaporation process is characterized by the rapid formation of _____ at the solid – liquid interface.

Gas

Small bubbles

Low pressure

Evaporation

Question ID : 630680506782

Option 1 ID : 6306801980636

Option 2 ID : 6306801980633

Option 3 ID : 6306801980634

ntation of the control loops can be achieved by using _____.

atic

g electronics

il electronics

ly II and III

ly I and II

II and III

ly I and III

Question ID : 630680506814

Option 1 ID : 6306801980762

Option 2 ID : 6306801980761

Option 3 ID : 6306801980764

Option 4 ID : 6306801980763

Status : **Not Attempted and
Marked For Review**

Chosen Option : --