

Andhra Pradesh State Council of 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.

Question Paper Name :	PHYSICAL SCIENCE URDU 14th June 2023 Shift 1
Duration :	120
Total Marks :	150
Display Marks:	No
Share Answer Key With Delivery Engine :	Yes
Calculator :	None
Magnifying Glass Required? :	No
Ruler Required? :	No
Eraser Required? :	No
Scratch Pad Required? :	No
Rough Sketch/Notepad Required? :	No
Protractor Required? :	No
Show Watermark on Console? :	Yes
Highlighter :	No
Auto Save on Console?	Yes
Change Font Color :	No
Change Background Color :	No
Change Theme :	No
Help Button :	No
Show Reports :	No

Show Progress Bar :	No
Is this Group for Examiner? :	No
Examiner permission :	Cant View
Show Progress Bar? :	No

General English

Section Id :	145589320
Section Number :	1
Mandatory or Optional :	Mandatory
Number of Questions :	21
Section Marks :	25
Enable Mark as Answered Mark for Review and Clear Response :	Yes
Maximum Instruction Time :	0
Is Section Default? :	null

Question Id : 1455899689 Sub Question Shuffling Allowed : Yes Group Comprehension Questions : No Question Pattern Type : NonMatrix Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Question Numbers : (1 to 5)

Question Numbers 1 to 5 :

Read the following passage and answer the questions that follow :

Dogs and cats should never be permitted to eat chocolate, because chocolate works like a poison on their bodies. Chocolate contains a chemical called Theobromine, which is similar to caffeine. Human bodies are able to process the Theobromine without any ill-side effects, but dogs and cats cannot.

Different types of chocolate contain different amounts of Theobromine. It would take twenty ounces of milk chocolate to kill a twenty pound dog, but only two ounces of baker's chocolate or six ounces of semi-sweet chocolate. The amounts, of course, are much smaller for a cat, whose body weight is typically less than that of a dog. Most Cats are not naturally attracted to eating chocolate, but many dogs are. Dogs, by nature, will sample nearly anything that they see their masters eating, so pet owners must take care to keep all chocolate products well out of reach of their dogs and cats.

Sub questions

Question Number : 1 Question Id : 1455899690 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

According to the passage, why is chocolate poisonous for dogs and cats?

Options :

1. ✘ It contains caffeine
2. ✘ Chocolate is made from processed cocoa
3. ✘ It gets stuck in their intestines

4. ✓ They cannot process Theobromine

Question Number : 2 Question Id : 1455899691 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

How much milk chocolate would be poisonous to a cat?

Options :

1. ✓ Substantially less than twenty ounces
2. ✗ Substantially more than twenty ounces
3. ✗ Approximately one pound
4. ✗ Half- a Hershey chocolate bar

Question Number : 3 Question Id : 1455899692 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Why might a dog eat chocolate, according to the passage?

Options :

1. ✗ because it tastes good

dogs won't eat chocolate

2. ✘

they can smell the theobromine

3. ✘

dogs like to imitate their owners

4. ✔

Question Number : 4 Question Id : 1455899693 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Choose the correct statement about the passage :

Options :

Chocolate has ill effects

1. ✘

Cats take twenty ounces of milk chocolate

2. ✘

Cats follow the habits of their masters

3. ✘

Human bodies process the Chemical called Theobromine

4. ✔

Question Number : 5 Question Id : 1455899694 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction

Time : 0

What does 'sample' mean in the passage?

Options :

1. ✘ model

2. ✔ taste

3. ✘ simple

4. ✘ gluttonous

Is Section Default? :

null

Question Number : 6 Question Id : 1455899695 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Choose the correct sentence :

Options :

1. ✘ It is raining, aren't it

2. ✘ He said that he is ruined

3. ✔ You must work hard for success

4. ✘ It is smelling goodly

Question Number : 7 Question Id : 1455899696 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Choose the correct sentence :

Options :

1. ✘ Considering about the quality, the price is not high

2. ✘ Do not preventing me work

3. ✔ She resembles her sister

4. ✘ He persisted to say this

Question Number : 8 Question Id : 1455899697 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Choose the appropriate articles :

_____ rose is _____ attractive flower

Options :

1. ✘

an, a

2. ✘ a, an

3. ✔ the, an

4. ✘ the, a

Question Number : 9 Question Id : 1455899698 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Choose the appropriate articles :

_____ bird in the hand is worth two in _____ bush.

Options :

1. ✘ an, the

2. ✔ a, the

3. ✘ a, an

4. ✘ the, the

Question Number : 10 Question Id : 1455899699 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Choose the appropriate preposition :

He was vexed _____ Ram for his behaviour.

Options :

1. ✘ at

2. ✘ to

3. ✔ with

4. ✘ upon

Question Number : 11 Question Id : 1455899700 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Choose the appropriate preposition :

Prasad is confident _____ his success.

Options :

1. ✔ of

2. ✘ towards

3. ✘ for

4. ✘ about

Question Number : 12 Question Id : 1455899701 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Choose the correct answer :

The General _____ the enemy's fortress

Options :

1. ✘ storm

2. ✔ stormed

3. ✘ have stormed

4. ✘ is storm

Question Number : 13 Question Id : 1455899702 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Choose the correct answer :

He _____, he _____ and he _____.

Note: For this question, discrepancy is found in question/answer. Full Marks is being awarded to all candidates.

Options :

1. come, san, conquered

2. came, see, conquered

3. came, san, conquered

4. came, see, conquer

Question Number : 14 Question Id : 1455899703 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Choose the correct answer :

‘Parasite’ means

Options :

1. ✘ A loss of motion
2. ✘ exterminator
3. ✘ disease
4. ✔ one that clings

Question Number : 15 Question Id : 1455899704 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Choose the correct answer :

‘placate’ means

Options :

1. ✘ to make sure
2. ✘ to annoy
3. ✔

✓ to pacify

4. ✘ to refuse

Question Number : 16 Question Id : 1455899705 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Choose the appropriate synonym for

‘ForeSTALL’ means

Options :

1. ✘ Progress

2. ✘ Frights

3. ✓ Prevent

4. ✘ Disappoint

Question Number : 17 Question Id : 1455899706 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Choose the appropriate synonym for Rectify

Options :

1. ✘ Build

2. ✔ Correct

3. ✘ Destroy

4. ✘ Command

Question Number : 18 Question Id : 1455899707 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Choose the appropriate antonym for Anomalous

Options :

1. ✔ normal

2. ✘ connected

3. ✘ vicious

4. ✘ capacious

Question Number : 19 Question Id : 1455899708 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Choose the appropriate antonym for preposterous

Options :

1. ✘ apologetic
2. ✔ credible
3. ✘ conceited
4. ✘ complaisant

Question Number : 20 Question Id : 1455899709 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Change the following into a complex sentence :

We went there and found that she had left

Options :

1. ✘ She had left and we went there
2. ✘ She and we could not find each other

3. ✓ When we went there, we found that she had left

She went there to find we were not there.

4. ✘

Question Number : 21 Question Id : 1455899710 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Change the following into a simple sentence :

The cow is good and gives milk.

Options :

1. ✓ The good cow gives milk

2. ✘ This is a good cow, which gives milk

3. ✘ To milk the cow is good

4. ✘ The good cow gives no milk

Question Number : 22 Question Id : 1455899711 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Change the sentence from active to passive voice :

A storm ravaged the village

Options :

The village ravaged the storm

1. ✘

The village was ravaged by a storm

2. ✔

The village ravage by a storm

3. ✘

A storm ravage the village

4. ✘

Question Number : 23 Question Id : 1455899712 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Change the sentence from passive to active voice

“their wonder was restrained by a strange happening”

Options :

a strange happening restrained their wonder

1. ✔

Their wonder restrained a strange happening

2. ✘

3. ✘

Happening strange their wonder restrained

Their wonder made a strange happening

4. ✘

Question Number : 24 Question Id : 1455899713 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Change the sentence from direct to indirect speech.

He said, "I will be writing to him soon."

Options :

1. ✓ He said that he would be writing to him soon

2. ✘ He said that he would be writes to him soon

3. ✘ He told that he will be writing to him soon

4. ✘ He said that I would be writing to him soon

Question Number : 25 Question Id : 1455899714 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Change the sentence from indirect to direct speech.

She said that they would have a party that night.

Options :

1. ✘ She says, "we will have a party now".
2. ✔ She said, "we will have a party to night."
3. ✘ She ordered, "we must organize a party tomorrow".
4. ✘ She said, "we could have a party yester night."

General Knowledge

Section Id :	145589321
Section Number :	2
Mandatory or Optional :	Mandatory
Number of Questions :	15
Section Marks :	15
Enable Mark as Answered Mark for Review and Clear Response :	Yes
Maximum Instruction Time :	0
Is Section Default? :	null

Question Number : 26 Question Id : 1455899715 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

The leadership in family planning – EXCELL awards 2022 in the country

category was received by :

خاندانی منصوبہ بندی میں لیڈرشپ۔ ایکسل ایوارڈس 2022 ملکی زمرہ میں اس ملک نے حاصل کیا۔

Options :

China

چین

1. ✘

India

ہندوستان

2. ✔

Singapore

سنگاپور

3. ✘

Thailand

تھائی لینڈ

4. ✘

Question Number : 27 Question Id : 1455899716 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

The Indian Film personality of the year 2022 award at the 53rd International film festival of India (IFFI) was presented to :

ہندوستان کے 53 ویں بین الاقوامی فلم فیسٹیول (IFFI) برائے سال 2022 کا ہندوستانی فلمی شخصیت کا ایوارڈ کسے پیش کیا گیا؟

Options :

Rajinikanth

1. ✘ رجنی کانت

Late PuneethRajkumar

2. ✘ مرحوم پونیت راج کمار

KonidelaChiranjeevi

3. ✔ کوئی ڈیلا چرنجیوی

Amir Khan

4. ✘ عامر خان

Question Number : 28 Question Id : 1455899717 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

28. In India, eleven states account for 90 percent of the total number of operational mines. Which of the following states are part of them?

ہندوستان میں 90% کام کرنے والی کانوں کی کل تعداد گیارہ ریاستوں میں واقع ہے۔ ان میں سے چند ریاستیں یہ ہیں۔

A. Andhra Pradesh

آندھرا پردیش

B. Bihar

بہار

C. Chhattisgarh

چھتیس گڑھ

D. Gujarat

گجرات

E. Uttarakhand

اتراکھنڈ

Select the correct answer :

صحیح جواب کا انتخاب کریں۔

Options :

A, C & D only

صرف A، C اور D

1. ✓

B & E only

صرف B اور E

2. ✗

3. ✗

A, C, D & E only

صرف A، C، D اور E

A, B & C only

صرف A، B اور C

4. ✘

Question Number : 29 Question Id : 1455899718 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

.Which one of the following is incorrect with regard to the National Green

Hydrogen Mission?

نیشنل گرین ہائیڈروجن مشن کے حوالے سے ذیل میں کون سا بیان غلط ہے۔

Options :

It was approved by the Union Cabinet in April 2023.

1. ✓ اسے مرکزی کابینہ نے اپریل 2023 میں منظوری دی

It makes India a leading producer of green hydrogen in the world.

یہ ہندوستان کو دنیا میں سبز ہائیڈروجن پیدا کرنے والا ایک سرکردہ ملک بناتا ہے۔

2. ✘

3. ✘

It reduces dependence on imported fossil fuels.

یہ درآمد شدہ باقیاتی ایندھن پر انحصار کم کرتا ہے۔

It attracts investment opportunities for the industry.

یہ صنعت کے لیے سرمایہ کاری کے مواقعوں کو راغب کرتا ہے۔

4. ✖

Question Number : 30 Question Id : 1455899719 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

30. 'Yaanam' is a science documentary of about 44 minutes. Which of the following are correct about it?

تقریباً 44 منٹ کی فلم "یا نام" ایک سائنسی دستاویز ہے۔ ذیل میں کون سا بیان اس کے بارے میں درست ہے۔

A. Yaanam is a first science non-feature film in Sanskrit.

"یا نام" سنسکرت میں پہلی ناول۔ فیچر سائنسی فلم ہے۔

B. It recounts the story of India's Chandrayan.

یہ ہندوستان کے چاند ریان کی کہانی بتاتی ہے۔

C. It was screened at the 53rd edition of the International Film Festival of India (IFFI)

اسے 53 ویں انٹرنیشنل فلم فیسٹیول (انڈیا) میں دکھایا گیا تھا۔

Select the correct answer :

صحیح جواب منتخب کریں

Options :

A & B only

صرف A اور B

1. ✘

A & C only

صرف A اور C

2. ✔

C only

صرف C

3. ✘

B & C only

صرف B اور C

4. ✘

Question Number : 31 Question Id : 1455899720 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

.The total length of national highways (NH) in India , as on 30th November, 2022,

approximately, was : (in lakh kms)

30 نومبر 2022 تک ہندوستان میں قومی شاہراہوں کی کل لمبائی تقریباً۔۔۔۔۔ تھی (لاکھ کلومیٹر میں)۔

Options :

1. ✓ 1.45

2. ✘ 1.38

3. ✘ 1.27

4. ✘ 1.52

Question Number : 32 Question Id : 1455899721 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

March 2023, who among the following was elected as the Chief Minister of Tripura?

مارچ 2023 میں ذیل میں سے کون تریپورا کا وزیر اعلیٰ منتخب ہوا؟

Options :

ManikSaha

1. ✓ مانک ساہا

ManikSarkar

مانک سرکار

2. ✘

Biplab Kumar Deb

بیلاب کمار دیب

3. ✘

Dasarath Deb

دسر تھ دیب

4. ✘

Question Number : 33 Question Id : 1455899722 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

In World women's Boxing Championship 2023 who won the gold medal in 50kg category.

2023 ورلڈ ویمنز باکسنگ چیمپئن شپ میں 50 کلوگرام کے زمرے میں کس نے گولڈ میڈل جیتا تھا؟

Options :

LovlinaBorgohain

1. ✘ لولینا بورگوہا

NikhatZareen

2. ✓ نکھت زرین

3. ✘

Saweety Boora

سویتی بورا

NituGhangas

نیتو گھنگاس

4. ✘

Question Number : 34 Question Id : 1455899723 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Which of the following is wrongly paired regarding Nobel Prizes 2022.

نوبل انعامات 2022 کے حوالے سے ذیل میں غلط جوڑی کون سی ہے؟

Options :

Physics – John . F. Clauser

طبیعیات -- جان ایف۔ کلاسر

1. ✘

Chemistry – Alain Aspect

کیمیا -- الین ایسپیکٹ

2. ✓

3. ✘

Peace – Ales Bialiatski

امن -- ایس بیالیاتسکی

Economics – Philip. H. Dybvig

معاشیات -- فلپ ایچ۔ ڈیب وگ

4. ✘

Question Number : 35 Question Id : 1455899724 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Choose the incorrect pair regarding the Union Budget – 2023 from the following.

مرکزی بجٹ برائے سال 2023 کے حوالے سے ذیل میں سے غلط جوڑ کا انتخاب کیجیے۔

Options :

Gobardhan - Waste to wealth plants

1. ✘ گوبردھن - دولت کے پودوں کو فضلاً

AmritDharohar – Optimal use of wetlands

2. ✘ امرت دھروہر - گیہلی زمینوں کا بہترین استعمال

3. ✔

Unity mall – Centre for national integration

یونٹی مال - قومی یکجہتی کا مرکز

Saptarishi – Seven priorities of the Budget.

سپتارشی - بجٹ کے سات ترجیحات

4. ✘

Question Number : 36 Question Id : 1455899725 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Whose writings influenced Karl Marx's dialectical materialism?

کس کی تحریروں نے کارل مارکس کی مابعد الطبیعیات کو متاثر کیا۔

Options :

Ricardo

ریکارڈو

1. ✘

Hegel

ہیگل

2. ✔

Angels

انجلس

3. ✘

Lenin

لینن

4. ✘

Question Number : 37 Question Id : 1455899726 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Identify the writer who won the SahityaAkademi Award for Telugu Novel

'ManodharmaParagam' in 2022.

”منودھرماپراگم“ نامی تلگو ناول کے لیے مرکزی ساہتیہ اکاڈمی ایوارڈ برائے سال 2022 اس مصنف کو دیا گیا۔

Options :

Vadde Naveen

وڈے نون

1. ✘

RepakaSubhadra

ریپکا سوبھدرا

2. ✘

3. ✔

MadhuranthakamNarendra

مدھورا ننگم نریندرا

Chandra Latha

چندرا لثا

4. ✘

Question Number : 38 Question Id : 1455899727 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

.In which city the COP-27 conference was held

کس شہر میں COP-27 کا نفرنس منعقد کی گئی۔

Options :

Kuwait

کویت

1. ✘

Sharm-el-Sheikh

شرم الشيخ

2. ✔

Doha

دوہا

3. ✘

Beirut

بيروت

4. ✘

Question Number : 39 Question Id : 1455899728 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Which Harappan City recognized as UNESCO world Heritage site in 2021.

کس ہڑپہ شہر کو 2021 میں UNESCO کے عالمی ثقافتی ورثے کا درجہ دیا گیا۔

Options :

Kalibangan

کالی بنگن

1. ✘

Dholavira

دھولاویرا

2. ✔

MohenjoDaro

موہنجودارو

3. ✘

4. ✘

Lothal

لوٹھل

Question Number : 40 Question Id : 1455899729 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Every year world Press Freedom Day is celebrated on

ہر سال اس دن یوم آزادی صحافت منایا جاتا ہے۔

Options :

3rd, May

1. ✓ 3 مئی

3rd, April

2. ✗ 3 اپریل

13th, May

3. ✗ 13 مئی

4. ✗

13th, April

13 اپریل

Teaching Aptitude

Section Id :	145589322
Section Number :	3
Mandatory or Optional :	Mandatory
Number of Questions :	10
Section Marks :	10
Enable Mark as Answered Mark for Review and Clear Response :	Yes
Maximum Instruction Time :	0
Is Section Default? :	null

Question Number : 41 Question Id : 1455899730 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

What is the appropriate purpose of learning?

سکھنے کا مناسب مقصد کیا ہے؟

Options :

Modifications of behaviour

کردار میں تبدیلی

1. ✓

Individual adjustment

2. ✖ انفرادی مطابقت

Social and Political awareness

3. ✖ سماجی و سیاسی بیداری

Development of life skills

4. ✖ زندگی کی مہارتوں میں ترقی

Question Number : 42 Question Id : 1455899731 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

How can a teacher establish rapport with students?

ایک استاد طلبہ کے ساتھ ہم آہنگی کیسے قائم رکھ سکتا ہے؟

Options :

Becoming a figure of authority

1. ✖ اختیار کا پیکر بن کر

2. ✖

Impressing students with knowledge and skills

علم و مہارت سے طلبہ کو متاثر کر کے

Playing the role of a guide

3. ✓ رہنما کا کردار ادا کر کے

Becoming a friend to the student

4. ✗ طالب علم کا دوست بن کر

Question Number : 43 Question Id : 1455899732 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

What are the essentials for the improvement of any skill?

کسی بھی مہارت کی بہتری کے لیے کیا ضروری ہے؟

Options :

Correctness & Speed

درستگی اور رفتار

1. ✗

2. ✓

Accuracy & speed

مطابقت اور رفتار

Understanding & correctness

تفہیم اور درستگی

3. ✖

Easy methods & speed

آسان طریقے اور رفتار

4. ✖

Question Number : 44 Question Id : 1455899733 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

What can we promote to the learner through assignments?

تفویضات کے ذریعے ہم متعلم کو کس کا بڑھاوا دے سکتے ہیں؟

Options :

Proper utilization of time

وقت کا صحیح استعمال

1. ✖

2. ✖

Continuity of classwork

کلاس ورک کا تسلسل

Innovative ideas

اختراعی خیالات

3. ✘

Thought provoking

4. ✔ فکر انگیزی

Question Number : 45 Question Id : 1455899734 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

How education is useful in application towards daily life?

روزانہ زندگی میں اطلاق کے لیے تعلیم کس طرح فائدہ مند ہے؟

Options :

For logical thinking

منطقی سوچ کے لیے

1. ✘

2. ✘

Social values

سماجی اقدار

Problem solving

3. ✓ مسئلہ حل کرنا

Moral values

4. ✗ اخلاقی اقدار

Question Number : 46 Question Id : 1455899735 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

What is suggestible step for the improvement of a slow learner?

ست متعلم کی ترقی کے لیے تجویز کردہ قدم کیا ہے؟

Options :

Remedial teaching

1. ✓ اصلاحی تدریس

Re teaching

2. ✗ باز تدریس

Group discussion

3. ✖ گروہی مباحثہ

Imposition

4. ✖ روزانہ مشق

Question Number : 47 Question Id : 1455899736 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

What is the output that we expect from the students through high percentage of attendance

زیادہ فی صد حاضری دینے والے طلبہ سے ہم کس خصوصیت کی توقع رکھ سکتے ہیں؟

Options :

Mid day meals

1. ✖ دوپہر کا کھانا

Discipline

2. ✖ نظم و ضبط

Minimum levels of learning

3. ✓ اکتساب کی اقل ترین سطحیں

Honesty

4. ✘ ایمان داری

Question Number : 48 Question Id : 1455899737 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Which is the strategy goes perfect for the attainment of effective learning?

موثر اکتساب کے حصول کے لیے کون سے اقدامات مفید ہیں؟

Options :

Online oriented education

1. ✘ آن لائن پر مبنی تعلیم

Learner centered education

2. ✓ متعلم مرکزی تعلیم

3. ✘

Teacher centered education

مدرس مرکزى تعليم

Play way education

تعليم بڌريعه كھيل

4. ✖

Question Number : 49 Question Id : 1455899738 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Expand UPE as per article No-45 of Indian constitution?

ہندوستانی آئین کے دفع نمبر 45 کے مطابق UPE کا پھیلاؤ

Options :

Union Programme education

یونین پروگرام ایجوکیشن

1. ✖

Upper primary education

اوپر پرائمری ایجوکیشن

2. ✖

3. ✖

University programme education

یونیورسٹی پروگرام ایجوکیشن

Universal primary education

یونیورسل پرائمری ایجوکیشن

4. ✓

Question Number : 50 Question Id : 1455899739 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

“Jaya JayaPriyaBharathaJanayitri..... Divyadhatri....” Who wrote this song?

”جیا جیا پریا بھارتا جانا یتری۔۔۔۔۔ دیوا دھاتری۔۔۔۔۔“ نغمہ کس نے لکھا؟

Options :

Dasaradhi

داسر تھی

1. ✘

Devulapalli Krishna Sastry

دیولا پالی کرشنا ساستری

2. ✓

3. ✘

SreeSree

سری سری

Aathreya

آثریا

4. ✖

Physics

Section Id :	145589323
Section Number :	4
Mandatory or Optional :	Mandatory
Number of Questions :	50
Section Marks :	50
Enable Mark as Answered Mark for Review and Clear Response :	Yes
Maximum Instruction Time :	0
Is Section Default? :	null

Question Number : 51 Question Id : 1455899740 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Inertia is defined by

دیریل یہ کلہ جہود کی تعریف کرتا ہے۔

Options :

Newton's I Law

نیوٹن کا پہلا کلمہ

1. ✓

Newton's II Law

نیوٹن کا دوسرا کلمہ

2. ✗

Kepler's I Law

کیپلر کا پہلا کلمہ

3. ✗

Kepler's II Law

کیپلر کا دوسرا کلمہ

4. ✗

Question Number : 52 Question Id : 1455899741 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

1 barn =

= 1 بارن

Options :

$10^{-32} m^2$

1. ✗

2. ✓ $10^{-28} m^2$

3. ✗ $10^{-24} m^2$

4. ✗ $10^{-20} m^2$

Question Number : 53 Question Id : 1455899742 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

The Kepler's law of planetary motion states that the areal velocity of a planet orbiting the sun is

سیاروں کی حرکت کا کیپلر کا قانون بیان کرتا ہے کہ سورج کے اطراف گردش کرنے والے سیارہ کے رقبہ کی رفتار — ہوگی۔

Options :

Zero

1. ✗ 0

Infinity

2. ✗ ∞

One m^2 / s

1 مربع میٹر / آرگنڈ

3. ✖

constant

مستند

4. ✔

Question Number : 54 Question Id : 1455899743 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

If the velocity of a body is equal to the velocity of light in vacuum, according to the special theory of relativity the mass of a body becomes

اگر کسی جسم کی رفتار خلا میں نور کی رفتار کے برابر ہو تو ،
اصنافیت کے خاص نظریہ کے مطابق جسم کی کمیت — میں جاتی ہے

Options :

Zero

صفر

1. ✖

Half of its original mass

اس کی اصل کمیت کا نصف

2. ✖

Double of its original mass

اسدکی اصلکی کمیت کا دوگنا

3. ✖

Infinity

لاہٹنا ہی

4. ✔

Question Number : 55 Question Id : 1455899744 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

For a simple harmonic oscillator,

انکے سادہ ہولسیمی اہتزاز کار کے لے

Options :

Kinetic energy is maximum at extreme position

انہتاتی مقام پر توانائی بالحرکت اعظم ترین ہوتی ہے۔

1. ✖

Potential Energy is maximum at mean position

اورط مقام پر توانائی الوتہ اعظم ترین ہوتی ہے۔

2. ✖

3. ✔

Kinetic energy is maximum at mean position

اوسط مقام پر توانائی بالحرکت اعظم ترین ہوتی ہے

Potential Energy is minimum at extreme position

انتہائی مقام پر توانائی بالحرکت اعظم ترین ہوتی ہے۔

4. ✖

Question Number : 56 Question Id : 1455899745 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

When two harmonic oscillators each of mass 'M' are coupled with a spring of mass 'm' then the normal modes are (ω_0 = Natural angular frequency)

مکھنٹ جب دو ہارمونک اوسیلٹرز کاروں m مکھنٹ والی اسپرنگ کے ساتھ جوڑا جاتا ہے تب نارمل موڈس ایسا ہیں۔

(ω_0 = قدرتی زاویائی تعدد)

Options :

$$\sqrt{\frac{\omega_0^2}{1 \pm \frac{m}{M}}}$$

1. ✓

2. ✖

$$\sqrt{\frac{\omega_o^2}{1 \pm \frac{M}{m}}}$$

$$\frac{\omega_o^2}{\sqrt{1 \pm \frac{M}{m}}}$$

3. ✘

$$\frac{\omega_o^2}{\sqrt{1 \pm \frac{m}{M}}}$$

4. ✘

Question Number : 57 Question Id : 1455899746 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

The frequency range of audible sound is

سمعی آواز کی تعددی گعت ہے۔

Options :

1. ✘ 0-20 Hz

2. ✘ 20-200 Hz

3. ✔ 20Hz-20K Hz

20KHz – 1M Hz

4. ✘

Question Number : 58 Question Id : 1455899747 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

A particle is executing SHM with amplitude 'A', when its kinetic energy and potential energy are equal at a displacement.

"A وسعت والا اک ذره سادہ موسیقی حرکت کو انجام دے رہا ہے۔
بتائے کہ کس مقام پر توانائی بالحرکت اور توانائی بالقوه مساوی
ہوتے ہیں۔"

Options :

A

1. ✘

$\frac{A}{2}$

2. ✘

$\frac{A}{\sqrt{2}}$

3. ✘

$\frac{A}{\sqrt{3}}$

4. ✔

Question Number : 59 Question Id : 1455899748 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

In Lloyd's single mirror, the phase difference between the two interfering waves is

واحد
لائیٹ کے آئینہ میں دو مدخلات کرنے والی موجوں کے
درمیان پیت فرق کیا ہے۔

Options :

1. ✓ 180^0

2. ✗ 90^0

3. ✗ 0^0

4. ✗ 120^0

Question Number : 60 Question Id : 1455899749 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

The condition for achromatism is

رنگ خالصیت کے لئے شرط — ہے۔

Options :

$$\frac{f_1}{f_2} = \frac{\omega_1}{\omega_2}$$

1. ✘

$$\frac{f_1}{f_2} = \frac{\omega_2}{\omega_1}$$

2. ✘

$$\frac{f_1}{f_2} = \frac{-\omega_1}{\omega_2}$$

3. ✔

$$\frac{f_1}{f_2} = \frac{-\omega_2}{\omega_1}$$

4. ✘

Question Number : 61 Question Id : 1455899750 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

In the frunhofer diffraction due to a circular aperture, as the diameter of the aperture increases, the radius of the central bright fringe

ایک دائری روزن کی وجہ سے فرنی ہافر الضراف
میں اگر روزن کا قطر بڑھتا ہے تب مرکزی چمکدار
فرینج کا قطر —

Options :

Also increases

بھی بڑھتا ہے .

1. ✘

Remains constant

مستقل رہتا ہے .

2. ✘

Decreases

گھٹتا ہے

3. ✔

First increases later decreases

پہلے بڑھتا ہے بعد میں گھٹتا ہے

4. ✘

Time : 0

For a zone plate, if f_R , f_G and f_V are the focal lengths of red, green and violet colours respectively, then

زون پلیٹ میں اگر f_R ، f_G اور f_V سرخ، سبز اور بنفشی رنگوں کے مساوی طول بائریٹب ہیں۔ تب ان کے درمیان یہ رشتہ پایا جاتا ہے۔

Options :

$$f_V > f_G > f_R$$

1. ✓

$$f_V < f_G < f_R$$

2. ✗

$$f_G > f_V > f_R$$

3. ✗

$$f_G > f_V < f_R$$

4. ✗

Question Number : 63 Question Id : 1455899752 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

The percentage of transmission of light, the Brewster's window enabled is

برلوسٹری کی کھٹری انطباق کے مطابق منتقل ہونے والی
لوہنی کا فیصد -

Options :

1. ✓ 100%

2. ✗ 50%

3. ✗ 75%

4. ✗ 25%

Question Number : 64 Question Id : 1455899753 Display Question Number : Yes Is Question
Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction
Time : 0

The angle between O-ray and E-ray in double refraction of light is

لوہر کے دہرے انعطاف میں 0 - شعاع اور E - شعاع کا درمیانی زاویہ

Options :

1. ✗ 45°

2. ✓ 90^0

3. ✗ 0^0

4. ✗ 180^0

Question Number : 65 Question Id : 1455899754 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

A sugar solution of concentration 0.2g/cc is in a tube of length 20cm. If the angle of rotation of plane of polarization is 60^0 in a polarimeter for the solution, then the specific rotation of the solution is

0.2g/cc ارتکا زکا چھندی محلول 20 سم طہی ٹیوب میں ہے۔ اگر لقطیب
کے صیوی کی گردش کا زاویہ محلول کے لیے پولری میٹر میں 60^0 ہے۔
بنائے کہ محلول کی مخصوص گردش کیا ہے۔

Options :

1. ✗ 66.5^0

2. ✗ 60.5^0

3. ✓ 62.5^0

75.5⁰

4. ✖

Question Number : 66 Question Id : 1455899755 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

The shape of the image of a square object formed with the aberration of distortion is

مستطیل کے متواتر ۲ سائز کے بننے والے مربع نقشے کا خیال
اس منفرک کا ہوتا ہے۔

Options :

Coloured and magnified

رنگین اور بڑا

1. ✖

Coloured and diminished

رنگین اور صدم

2. ✖

Coloured squares at different points

مختلف نقاط پر رنگین مربع

3. ✖

Bulged at the edges of square

فربج کے کناروں پر ابھار

4. ✓

Question Number : 67 Question Id : 1455899756 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

The focal length of a zone plate is given by

زون پلیٹ کا فوکس کی طول -

Options :

1. ✓ $f_n = \frac{r_n^2}{n\lambda}$

2. ✗ $f_n = \frac{n^2}{\lambda r_n}$

3. ✗ $f_n = \frac{n\lambda^2}{r_n}$

4. ✗ $f_n = \frac{\lambda^2}{nr_n}$

Question Number : 68 Question Id : 1455899757 Display Question Number : Yes Is Question

Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

The efficiency of a Carnot's engine working between 627°C and 927°C temperatures is

۶۲۷°c اور ۹۲۷°c درمیان کام کرنے والی کارنات
انجن کی صلاحیت —

Options :

50%

1. ✘

75%

2. ✘

45%

3. ✘

25%

4. ✔

Question Number : 69 Question Id : 1455899758 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

According to the kinetic theory of gases, the energy of a system at zero

absolute temperature is

گیسوں کے حرکتی نظریہ کے مطابق، نظام کو توانائی صفر پر
مطلق صفر پر — ہو گی۔

Options :

0 ev

1. ✓

∞

2. ✗

$\frac{1}{2}$ ev

3. ✗

1 ev

4. ✗

Question Number : 70 Question Id : 1455899759 Display Question Number : Yes Is Question
Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction
Time : 0

The transportation of kinetic energy from one region to the other in a gas gives
rise to

ایک گیس میں حرکتی توانائی کا ایک خطہ سے دوسرے تک
حمل و نقل — ہوتا ہے۔

Options :

1. ✗

Diffusion

لغوز پذیری

Thermal conduction

حراری ایصال

2. ✓

Viscosity

لزوجیت

3. ✘

Volume

حجم

4. ✘

Question Number : 71 Question Id : 1455899760 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

The change in Helmholtz function is equal to

ہلم ہولڈز لفاعل میں تبدیلی — کے مساوی ہوتی ہے۔

Options :

$$-SdT - PdV$$

1. ✓

$$-SdT + PdV$$

2. ✘

$$SdT - VdP$$

3. ✘

$$SdT + VdP$$

4. ✘

Question Number : 72 Question Id : 1455899761 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

The increase in entropy when 273 kg of ice is melted at 0°C is (Latent heat of fusion of ice is $3.26 \times 10^3 \text{ J/kg}$)

اگر 273 کلوگرام برف کو 0°C پر پگھلایا جائے گا۔ تب اینٹروپی میں کتنا اضافہ ہوگا۔ (برقی کی مخفی حرارت 3.26×10^3 جول/کلوگرام)

Options :

$$6.26 \times 10^3 \text{ J/K}$$

1. ✘

$$3.26 \times 10^3 \text{ J/K}$$

2. ✔

$$3.26 \times 10^{-3} \text{ J/K}$$

3. ✘

$$6.26 \times 10^{-3} \text{ J/K}$$

4. ✘

Question Number : 73 Question Id : 1455899762 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

For a real gas, Cooling by Joule – Kelvin effect is possible only when
(T_i -inversion Temperature)

جول - کیلون اثر کے مطابق کسی درجہ حرارت پر کسی گیس (کامل گیس) کو ٹھنڈا کیا جا سکتا ہے۔

Note: For this question, discrepancy is found in question/answer. Full Marks is being awarded to all candidates.

Options :

$$T_i = \frac{29}{Rb}$$

1.

$$T_i > \frac{29}{Rb}$$

2.

$$T_i < \frac{29}{Rb}$$

3.

4.

$$T_i = \frac{2b}{Ra}$$

Question Number : 74 Question Id : 1455899763 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Wien's constant is

وینر کا مستقل ہے

Options :

1. ✓ $2.92 \times 10^{-3} \text{ mk}$

2. ✗ $0.292 \times 10^{-3} \text{ mk}$

3. ✗ 0.292 mk

4. ✗ 2.92 mk

Question Number : 75 Question Id : 1455899764 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

The following gas has heating effect at room temperature in throttling process

کھرا ٹیلنگڈ محمل میں ذیل کی یہ گیس عام لیٹنڈ پر حرارتی اثر رکھتی ہے۔

Options :

Oxygen

آکسیجن

1. ✘

Carbon dioxide

کاربن ڈائی آکسائیڈ

2. ✘

Neon

نیون

3. ✘

Hydrogen

ہائیڈروجن

4. ✔

Question Number : 76 Question Id : 1455899765 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Two stars radiate maximum energy at wavelengths $0.48 \mu\text{m}$ and $0.60 \mu\text{m}$ respectively. The ratio of their temperature is

دو ستارے بالترتیب 0.48 اور 0.60 مائیکرو میٹر طول موج پر زیادہ سے زیادہ توانائی کا اشعاع کرتے ہیں۔ ان کے درجہ حرارت کا تناسب — ہے۔

Options :

25 : 16

1. ✘

16 : 25

2. ✘

5 : 4

3. ✔

4 : 5

4. ✘

Question Number : 77 Question Id : 1455899766 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

The integral form of Gauss law is

گاس کے قانون کی تکمیلی شکل -

Options :

1. ✘

$$\oint \vec{E} \cdot d\vec{s} = \frac{\rho}{\epsilon_0}$$

2. ✓ $\oint \vec{E} \cdot d\vec{s} = \frac{q}{\epsilon_0}$

3. ✗ $\oint \vec{E} \cdot d\vec{s} = q$

4. ✗ $\oint \vec{E} \cdot d\vec{s} = \rho$

Question Number : 78 Question Id : 1455899767 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

The electric field intensity at the centre of a hollow charged sphere is

جارج شدہ کھوکھلا کرہ کا مرکزہ پر برقی میدان کی
حدت — ہے .

Options :

0 (zero)

1. ✓ صفر

∞

2. ✗

Constant

صستہ

3. ✖

$$-1 \frac{N}{c}$$

4. ✖

Question Number : 79 Question Id : 1455899768 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

The electric potential at a point of 1 m from a charged sphere of radius 0.5m

when it is charged to 10c is

50.5 میٹر لائن فلو والے خارج شدہ کرہ کو 10 سے خارج کیا جائے
کرہ سے 1 میٹر کے فاصلہ پر برقی قوت کیا ہوگی۔

Options :

Zero volt

صفر وولٹ

1. ✖

$$4.5 \times 10^9 \text{ V}$$

2. ✖

$$9 \times 10^9 \text{ V}$$

3. ✖

4.

✓ $9 \times 10^{10} \text{ V}$

Question Number : 80 Question Id : 1455899769 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Biot – Savart's law in vector form is

بائی وٹ - ساورٹ کے قانون کی سمتی شکل

Options :

$$d\vec{B} = \frac{\mu_0}{2\pi} \frac{i(d\vec{l} \times \vec{r})}{|\vec{r}|^3}$$

1. ✗

$$d\vec{B} = \frac{\mu_0}{2\pi} \frac{i(d\vec{l} \times \vec{r})}{|\vec{r}|^2}$$

2. ✗

$$d\vec{B} = \frac{\mu_0}{4\pi} \frac{i(d\vec{l} \times \vec{r})}{|\vec{r}|^3}$$

3. ✓

$$d\vec{B} = \frac{\mu_0}{4\pi} \frac{i(d\vec{l} \times \vec{r})}{|\vec{r}|^2}$$

4. ✗

Question Number : 81 Question Id : 1455899770 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction

Time : 0

The Hall coefficient is

ہال کا ضریب

Options :

1. ✓ $\frac{1}{ne}$

2. ✗ $\frac{J}{ne}$

3. ✗ ne

4. ✗ $\frac{ne}{J}$

Question Number : 82 Question Id : 1455899771 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction

Time : 0

The differential form of Faraday's law is

فیرڈے کے قانون کی لفریہی شکل

Options :

1. ✓ $\nabla \times \vec{E} = \frac{-\partial \vec{B}}{\partial t}$

$$\nabla \cdot \bar{E} = \frac{\partial \bar{B}}{\partial t}$$

2. ✖

$$\nabla \times \bar{B} = \frac{-\partial \bar{E}}{\partial t}$$

3. ✖

$$\nabla \cdot B = \frac{\partial \bar{E}}{\partial t}$$

4. ✖

Question Number : 83 Question Id : 1455899772 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

The SI unit of the coefficient of self induction is

خود اعماليہ دھربندی کی اکائی ایس.ی. نظام میں

Options :

Farad

فیراڈ

1. ✖

Weber

ویبر

2. ✖

3. ✖

Volt

وولٹ

Henry

ہنری

4. ✓

Question Number : 84 Question Id : 1455899773 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

In an AC circuit, containing capacitance $2\mu\text{F}$ and frequency 50Hz , the capacitive reactance is

2 μF صلاحیت اور 50Hz تعدد والے AC دور میں صلاحیتی نا اہلیت لیا ہے۔

Options :

1. ✓ $\frac{5000}{\pi} \Omega$

2. ✘ $\frac{3000}{\pi} \Omega$

3. ✘ $\frac{2000}{\pi} \Omega$

4. ✘ $\frac{1000}{\pi} \Omega$

Question Number : 85 Question Id : 1455899774 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

The γ of a transistor is 49 then its β is

اگر ایک ٹرانسسٹور کے γ کی قیمت 49 ہے تو β کی قدر — ہوگی

Options :

1. ✓ 49

2. ✘ 98

3. ✘ 96

4. ✘ 48

Question Number : 86 Question Id : 1455899775 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

A zener diode in forward bias acts as a

زیئرڈیوڈ پیشیں مائل میں — کی طرح کام کرتا ہے۔

Options :

Transistor

1. ✘

ٹرانسسٹور

Thermistor

2. ✘

ٹھرمسٹور

Simple p-n junction diode

3. ✔

سادہ p-n جنکشن ڈیوڈ

Voltage regulator

4. ✘

ووولٹیج رگولر کار

Question Number : 87 Question Id : 1455899776 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

If A and B are the inputs of XOR gate then its output is

اگر A اور B اور XOR گیت کے درآمد ہیں بت اس کا پرامہ ہے۔

Options :

A.B

1. ✘

$$A+B$$

2. ✘

$$\overline{AB}+A\overline{B}$$

3. ✔

$$AB+\overline{A\overline{B}}$$

4. ✘

Question Number : 88 Question Id : 1455899777 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

The decimal number equal to the binary number $(110.01)_2$ is

دو عشی عدد $(110.01)_2$ کے مساوی عشی عدد ہے

Options :

4.25

1. ✘

6.05

2. ✘

2.50

3. ✘

6.25

4. ✔

Question Number : 89 Question Id : 1455899778 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

An AC voltage $V=20 \sin (100\pi t)$ volt is applied to a resistance $2k\Omega$. The rms current flowing through it is

ایک AC دور میں $2k\Omega$ فراہم کواہت کو $V=20 \sin (100\pi t)$ وولٹ
اولٹیج فراہم کرنے پر اس سے گذرنے والی rms برف کی قدر کیا ہوگی۔

Options :

1. ✘ 5 mA
2. ✘ 10 mA
3. ✘ 14 mA
4. ✔ 7.07 mA

Question Number : 90 Question Id : 1455899779 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

The experimental verification of vector atom model is done by

سمتی جوہری نمونہ کی تجرباتی تصدیق — کہ ذرلیہ کی جاتی ہے۔

Options :

Raman effect

رامن اثر

1. ✘

Stern-Gerlach experiment

اسٹرن - گیرلاچ تجربہ

2. ✔

Davission-Germer experiment

ڈاویسن - جرمر تجربہ

3. ✘

Photo electric effect

اضیاء (لوری برقی اثر)

4. ✘

Question Number : 91 Question Id : 1455899780 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

If an electron is accelerated in an electric field having potential difference 500V

then the de Broglie, wavelength is

الگ برقی میدان میں الیکٹران کو تیز کیا جاتا ہے۔ جس میں تفاوت پوتہ 500V ہے۔ تب ڈی براگلی، طول موج — ہے۔

Options :

1. ✘ $1.23A^0$

2. ✘ $2.23A^0$

3. ✘ $3.23A^0$

4. ✔ $0.615A^0$

Question Number : 92 Question Id : 1455899781 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

The spin of electron was experimentally detected by

الکٹران کے گھماؤ کو تجرباتی طور پر — گھڑی دیکھ کر دریافت کیا گیا

Options :

G-P Thomson experiment

جی - پی - تھامسن تجربہ

1. ✘

Davisson and Germer Experiment

ڈاویسن اور جرمر تجربہ

2. ✘

Stern – Germer experiment

اسٹرن - جرمر تجربہ

3. ✓

Hertz experiment

ہیٹز تجربہ

4. ✘

Question Number : 93 Question Id : 1455899782 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

The quantum mechanical operator $\frac{-i\hbar\nabla}{m}$ is of the following observable

quantity.

$\frac{-i\hbar\nabla}{m}$ کو انٹیم میکانکی عامل کو بتانے والی
مشابہتی مقدار

Options :

Momentum

معیار حرکت

1. ✘

Energy

توانائی

2. ✘

3. ✓

Velocity

رفتار

Kinetic Energy

حرکی توانائی

4. ✖

Question Number : 94 Question Id : 1455899783 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

An electron is moving between two walls having separation 10^{-10} m then its de

Broglie wavelength corresponding to the first excited state is

جب ایک الیکٹران دو دیواروں کے درمیان 10^{-10} میٹر کا فاصلہ طے کرتا ہے۔ تب اس کی پہلی مشتعل حالت کی ڈی برائیگی کی طول موج کیا ہے۔

Options :

10 A⁰

1. ✖

1 A⁰

2. ✖

2 A⁰

3. ✔

$$0.5 A^0$$

4. ✘

Question Number : 95 Question Id : 1455899784 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

For a normalized wave function (ψ)

معیاری موجی فنکشن (ψ) کے لیے یہ شرط ہے۔

Options :

$$\int |\psi(x, y, z, t)| d\tau = 1$$

1. ✘

$$\int |\psi(x, y, z, t)| d\tau = 0$$

2. ✘

$$\int |\psi(x, y, z, t)|^2 d\tau = 0$$

3. ✘

$$\int |\psi(x, y, z, t)|^2 d\tau = 1$$

4. ✔

Question Number : 96 Question Id : 1455899785 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

The de Broglie wavelength of a particle having kinetic energy E is λ . If it's

kinetic energy is doubled then its de Broglie' wavelength is

حرکی توانائی E والے ذرہ کی ڈی بریگی کی طول موج λ ہے۔
اگر اسکی حرکی توانائی کو دوگنا کر دیا جائے تب
نئی بریگی کی طول موج — ہے۔

Options :

1. 2λ

✘

2. λ

✘

3. $\frac{\lambda}{\sqrt{2}}$

✔

4. $\sqrt{2}\lambda$

✘

Question Number : 97 Question Id : 1455899786 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

The following is not the property of nuclear forces

درج ذیل میں سے نیوکلیائی قوتوں کی خاصیت نہیں ہے۔

Options :

Electrical

1. ✓ برقی خاصیت

Non-central

2. ✗ غیر مرکزی قوتیں

Charge independent

3. ✗ چارج پر غیر منحصر قوتیں

Spin dependent

4. ✗ گھماؤ پر منحصر قوتیں

Question Number : 98 Question Id : 1455899787 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

A superconductor exhibits

ایک اعلیٰ موصل ظاہر کرتا ہے۔

Options :

1. ✓

Perfect diamagnetism

کامل ڈیامیٹنا طبعیت

Perfect Para magnetism

کامل پیرامیٹنا طبعیت

2. ✘

Perfect ferromagnetism

کامل فیرومیٹنا طبعیت

3. ✘

Perfect ferrimagnetism

کامل فییریٹنا طبعیت

4. ✘

Question Number : 99 Question Id : 1455899788 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

The maximum value of binding energy per nucleus is

بندشہی توانائی کی اعظم ترین قدر فی نیوکلیس (حکمرہ)

Options :

1. ✓ 8.8 MeV

2. ✖ 9.2 MeV

3. ✖ 7.8 MeV

4. ✖ 7.2 MeV

Question Number : 100 Question Id : 1455899789 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Quantum dots are used in

کوانٹم نقاط — میں استعمال ہوتے ہیں۔

Options :

Crystallography

قلم کاری

1. ✖

Mechanics

میکانکس

2. ✖

Quantum Physics

کوانٹم طبیعیات

3. ✖

4. ✓

Chemistry

Section Id :	145589324
Section Number :	5
Mandatory or Optional :	Mandatory
Number of Questions :	50
Section Marks :	50
Enable Mark as Answered Mark for Review and Clear Response :	Yes
Maximum Instruction Time :	0
Is Section Default? :	null

Question Number : 101 Question Id : 1455899790 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

The number of $P_{\pi}-P_{\pi}$ and $P_{\pi}-d_{\pi}$ bonds in the structure of SO_3 molecule are respectively

SO_3 سالمہ کی ساخت میں $P_{\pi}-P_{\pi}$ اور $P_{\pi}-d_{\pi}$ بند کی تعداد ۰ ہے۔

Options :

1, 2

1. ✓

2. ✘ 2, 1

3. ✘ 3, 0

4. ✘ 0, 3

Question Number : 102 Question Id : 1455899791 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

2 moles of an ideal gas expands isothermally and reversibly from 5 dm^3 to 50 dm^3 at 27°C . The work done (in KJ) is ($R=8.3\text{JK}^{-1} \text{ mol}^{-1}$)

اگر ایک مثالی گیس کے 2 مولس 27°C پر 5 dm^3 تا 50 dm^3 تک
متم تپشی اور رجعتی طور پر پھیلتے ہیں۔ تب کیا کیا کام ہے۔
($R = 8.3 \text{ JK}^{-1} \text{ mol}^{-1}$) (KJ میں)

Options :

1. ✔ -11.47

2. ✘ +10.47

3. ✘ -13.47

4. ✖ +12.47

Question Number : 103 Question Id : 1455899792 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

The acidic nature of alcohols in the correct order is

الکوحول کی ترشی خالصت کی صحیح ترتیب ہے۔

Options :

Tertiary > Secondary > Primary

1. ✖ ابتدائی > ثانوی > ثلاثی

Secondary > Primary > Tertiary

2. ✖ ثلاثی > ابتدائی > ثانوی

Primary > Secondary > Tertiary

3. ✔ ثلاثی > ثانوی > ابتدائی

Secondary > Tertiary > Primary

4. ✖ ابتدائی > ثلاثی > ثانوی

Question Number : 104 Question Id : 1455899793 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Which of the following oxide is amphoteric in nature?

ذیل کے آکسائیڈوں میں سے کون سا دو رخا نوعیت کا ہوتا ہے۔

Options :

1. ✘ CaO

2. ✔ Al₂O₃

3. ✘ MgO

4. ✘ K₂O

Question Number : 105 Question Id : 1455899794 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

The set which represents only extensive properties is

ذیل کے گروہ میں سے جو گروہ وسیع خصوصیات کو ظاہر کرتا ہے۔

Options :

1. ✘

Volume, enthalpy, entropy

حجم، اینٹالپی، اینٹروپی

Pressure, volume, temperature

دباؤ، حجم، شیش

2. ✘

Viscosity, surface tension, entropy

لزوجیت، سطحی تناؤ، اینٹروپی

3. ✘

Heat capacity, electrode potential, Internal energy

حراری صلاحیت، برقی پوتنشل، داخلی توانائی

4. ✔

Question Number : 106 Question Id : 1455899795 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Kolbe's electrolysis of Sodium Propionate gives

کولبے کی برق پاراشیدگی کے ذریعہ
سودیم پروپیونٹ سے — حثیات

Options :

1. ✘ C_6H_4

2. ✘ $C_8 H_{16}$

3. ✘ $C_6 H_{12}$

4. ✔ $C_4 H_{10}$

Question Number : 107 Question Id : 1455899796 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Which of the following will have highest pH?

ذیل میں سے سب سے زیادہ pH قدر ہوئی ہے

Options :

1. ✘ 0.1N HCl

2. ✘ 0.01N NaOH

3. ✘ 0.1N $CH_3 COOH$

4. ✔ 0.1N NaOH

Question Number : 108 Question Id : 1455899797 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Units of equivalent conductance is

معادل موصلیت کی اکائیاں —

Options :

1. ✘ $ohm\ cm^2\ eq^{-1}$

2. ✘ $ohm^{-1}\ cm^2\ mol^{-1}$

3. ✘ $ohm^{-1}\ cm^2\ eq$

4. ✔ $ohm^{-1}\ cm^2\ eq^{-1}$

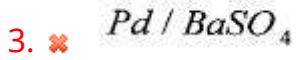
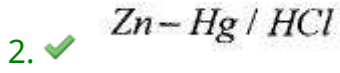
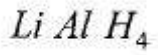
Question Number : 109 Question Id : 1455899798 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

The reducing agent in Cleansen reduction is

کلینسن سن بخوبی میں یہ بخوبی عامل ہے۔

Options :

1. ✘



Question Number : 110 Question Id : 1455899799 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

The coordination number of Co in $[Co(NH_3)_5NO_2]Cl_2$ is

$[Co(NH_3)_5NO_2]Cl_2$ میں Co کا ہم (بطبی عدد) ہے۔

Options :

1. ✗ 2

2. ✗ 4

3. ✓ 6

4. ✗

Question Number : 111 Question Id : 1455899800 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

The order of coagulating power of Chloride, phosphate and sulphate ions

towards $Fe_2O_3 \cdot x H_2O$ sol is

$Fe_2O_3 \cdot x H_2O$ Sol کی جانب کلورائڈ، فاسفیٹ اور سلفیٹ
یوں کی بجائے طاقت کی ترتیب ہے۔

Options :

Chloride < Sulphate < Phosphate

1. ✓ فاسفیٹ < سلفیٹ < کلورائڈ

Sulphate < Chloride < Phosphate

2. ✗ فاسفیٹ < کلورائڈ < سلفیٹ

Phosphate < Chloride < Sulphate

3. ✗ سلفیٹ < کلورائڈ < فاسفیٹ

4. ✗

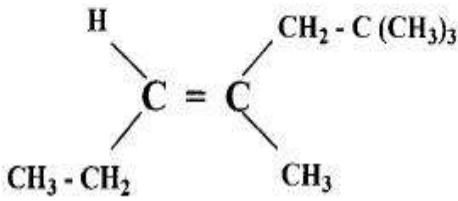
Phosphate < Sulphate < Chloride

کلورائیڈ < سلفیٹ < فوسفیٹ

Question Number : 112 Question Id : 1455899801 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

The IUPAC name of the compound given under is

دے دے عربی کا IUPAC نام — ہے .



Options :

(E) - 4,6,6 - trimethyl - 3 - heptane

1. ✓

(E) - 4,6,6 - ٹرائی میٹھاٹیل - 3 - ہیپٹین

(Z) - 4,6,6 - trimethyl - 3 - heptene

2. ✗

(Z) - 4,6,6 - ٹرائی میٹھاٹیل - 3 - ہیپٹین

3. ✗

(E) - 2,2,4 - trimethyl - 3 - heptene

(E) - 2,2,4 - ٹرائی میٹھائیل - 3 - ہپٹین

(Z) - 2,2,4 - trimethyl - 3 - heptene

(Z) - 2,2,4 - ٹرائی میٹھائیل - 3 - ہپٹین

4. ✘

Question Number : 113 Question Id : 1455899802 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Hybridisation of Boron in the formation of diborane is

ڈائی بورین کی تشکیل میں بوران کا اختلاط -

Options :

1. ✘ sp

2. ✓ sp^2

3. ✘ sp^3

4. ✘ sp^3d

Question Number : 114 Question Id : 1455899803 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

In Bragg's equation $n\lambda = 2d \sin \theta$, where n represents

برائے کی مساوات $n\lambda = 2d \sin \theta$ میں "n" ظاہر کرتا ہے۔

Options :

number of moles

مولوں کی تعداد

1. ✘

order of reflections

انعکاسوں کا درجہ

2. ✔

Avagadro's number

ایواگادرو عدد

3. ✘

number of x-rays

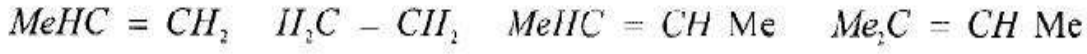
x-rays کی تعداد

4. ✘

Question Number : 115 Question Id : 1455899804 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Arrange the following alkenes in the order of increasing stability

دیل کے الکیٹنس کو برصتی ہوئی منام پڑیری
کی ترتیب میں جوڑیے۔



I

II

III

IV

Options :

1. ✓ II < I < III < IV

2. ✗ IV < III < II < I

3. ✗ I < II < III < IV

4. ✗ III < IV < II < I

Question Number : 116 Question Id : 1455899805 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

The most popular light radiation source used in infrared (IR) spectroscopy is

زیریں سرخ طیف میں استعمال ہو نے والی سب سے زیادہ مشہور لوری اشعاع

Options :

1. ✗

Hydrogen lamp

ہائیڈروجن کا چراغ

Nernst glower

نرنسٹ گلویر

2. ✓

Deuterium lamp

ڈیوٹیریم کا چراغ

3. ✘

Hollow cathode lamp

خوکھلا صنفیہ کا چراغ

4. ✘

Question Number : 117 Question Id : 1455899806 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

The temperature at which two conjugate solutions merge into one another to form one layer is called

وہ درجہ حرارت جس پر دو زوجی محلول ایک دوسرے میں ضم ہو کر ایک سہ بناتے ہیں۔

Options :

1.

Boyle temperature

بائیل تپیش

✖

Critical temperature

ناهل تپیش

2. ✖

Dalton's temperature

ڈالٹن کا تپیش

3. ✖

Critical solution temperature

ناهل محلول کی تپیش

4. ✓

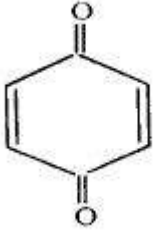
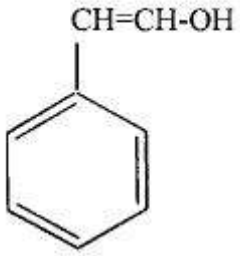
Question Number : 118 Question Id : 1455899807 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Tautomerism is not exhibited by

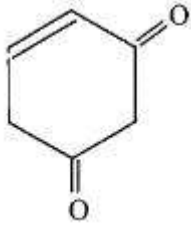
یہ حرکتی ترکیب کا مظاہرہ نہیں کرتا ہے۔

Options :

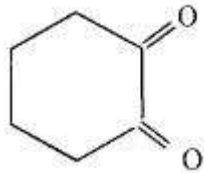
1. ✖



2. ✓



3. ✘



4. ✘

Question Number : 119 Question Id : 1455899808 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

In IR Spectrum, Carbonyl absorption is observed at

IR طیف میں، کاربوناٹیل کا انجذاب — در
دیکھا جاسکتا ہے۔

Options :

1. ✘ 3600 cm⁻¹

2. ✘ 3100 cm⁻¹

3. ✔ 1700 cm⁻¹

4. ✘ 2600 cm⁻¹

Question Number : 120 Question Id : 1455899809 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

For a spontaneous reaction, the value of ΔG is

از خود لگامی لے لے ΔG کی قدر — ہے۔

Options :

Zero

1. ✘ صفر

Infinity

2. ✘ لامتناہی

Positive

3. ✘ مثبت

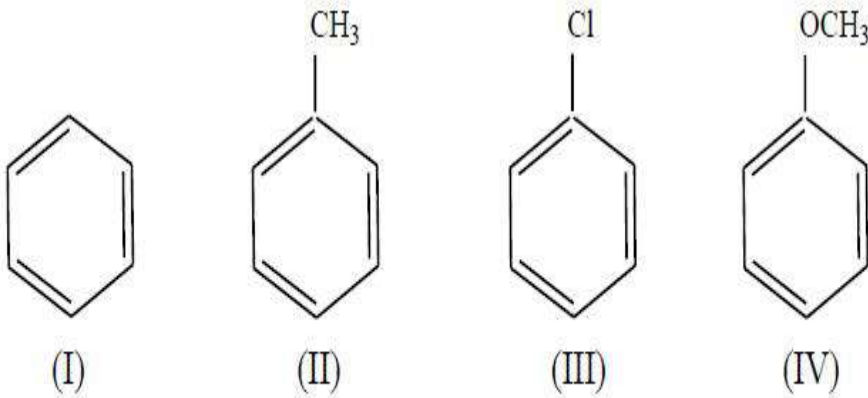
Negative

4. ✔ منفی

Question Number : 121 Question Id : 1455899810 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Arrange the following compounds in the order of decreasing reactivity towards electrophilic substitution reaction

انکٹروفیلک متبادل تعامل کی جانب ڈیل کے مرکبات کی
تعمیل پذیری کو گھٹتی ہوئی ترتیب میں لکھیے۔



Options :

1. ✔ IV > II > I > III

2. ✘ IV > I > III > II

III > II > I > IV

3. ✘

II > III > IV > I

4. ✘

Question Number : 122 Question Id : 1455899811 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

In IR Spectrum, the peak corresponding to $\text{C}=\text{O}$ group is in the frequency range of

IR طیف میں 'C=O' گروپ کی جوتی کالنگوری رینج ہے۔

Options :

1620 - 1680 Cm^{-1}

1. ✘

3200 - 3600 Cm^{-1}

2. ✘

1710 - 1750 Cm^{-1}

3. ✔

2100 - 2200 Cm^{-1}

4. ✘

Question Number : 123 Question Id : 1455899812 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

The ebullioscopic constant is the elevation in boiling point of a

جوشن نما مستقلی — کے نقطہ جوش کا ارتفاح ہے .

Options :

1 M Solution

1. ✘ 1 M محلول

1 N Solution

2. ✘ 1 N محلول

1 m Solution

3. ✔ 1 m محلول

1 F Solution

4. ✘ 1 F محلول

Question Number : 124 Question Id : 1455899813 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Di carbonyl compound on heating with NH_3 gives a derivative of compound X, on heating with P_2O_5 gives a derivative of compound Y, then X and Y respectively are

اگر ڈائی کاربونیل مرکب کو NH_3 کے ساتھ گرم کرنے پر X مرکب اور P_2O_5 کے ساتھ گرم کرنے پر Y مرکب کا مشتق دیا ہے - تب X اور Y بالترتیب — ہیں۔

Options :

Furan, Pyrrole

فیوران، پیپٹول

1. ✘

Pyrrole, Pyridine

پیپٹول، پیپٹرین

2. ✘

Pyrrole, Furan

پیپٹول، فیوران

3. ✔

Pyrrole, Pyran

پیپٹول، پیپٹران

4. ✘

Question Number : 125 Question Id : 1455899814 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Which of the following is a soft acid ?

دیل سے یہ صلاحیت ٹرٹ ہے .

Options :

1. ✘ Mg^{2+}

2. ✘ Ca^{2+}

3. ✔ Cd^{2+}

4. ✘ Be^{2+}

Question Number : 126 Question Id : 1455899815 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

The solvent which can dissolve all the carboxylic acids is

وہ محلول جس میں تمام کاربوکزیلیک ٹرٹ سے حل ہوتے ہیں۔

Options :

1. ✘

Conc. H_2SO_4

صرتکز H_2SO_4

Conc. HCl

صرتکز HCl

2. ✘

Water

پانی

3. ✘

dil. $NaOH$

پلکا یا $NaOH$

4. ✔

Question Number : 127 Question Id : 1455899816 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

When amino acid is heated with soda lime, it decomposes into

جب امینو کربنک کو سوڈا لیم کے ساتھ گرم کیا جاتا ہے،
تب وہ — میں تحلیل ہو جاتا ہے۔

Options :

1. ✔

Amine

امین

Alkane

الکین

2. ✖

Alcohol

آلکول

3. ✖

aldehyde

آلڈی ہائیڈ

4. ✖

Question Number : 128 Question Id : 1455899817 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Example of pseudo halide ion is

کاذب ہالائیڈ یون کی مثال

Options :

SO_4^{2-}

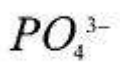
1. ✖



2. ✘



3. ✔



4. ✘

Question Number : 129 Question Id : 1455899818 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

The osmotic pressure of 0.1 M sodium chloride solution at 27°C is

[Assume that sodium chloride under goes 100% dissociation, R=0.082 L-atm

K⁻¹ mol⁻¹]

27°C پر 0.1M سوڈیم کلورائیڈ محلول کا اوسموتک دباؤ ہے۔
[فرض کرو کہ سوڈیم کلورائیڈ 100% تحلیل ہوئی ہے۔
R = 0.082 L-atm K⁻¹ mol⁻¹]

Options :

3.92 atm

1. ✘

1.96 atm

2. ✘

3. ✔

4.92 atm

2.46 atm

4. ✘

Question Number : 130 Question Id : 1455899819 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

. Dehydrogenation of secondary alcohol gives

ثانوی الکول کی ہائیڈروجنی تحلیل — دیتی ہے

Options :

Acid

ترشہ

1. ✘

Alkene

الکین

2. ✘

Aldehyde

آلڈی ہائیڈ

3. ✘

4. ✔

Ketone

کٹیون

Question Number : 131 Question Id : 1455899820 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Which of the following metal carbonyl does not obey the 18 electron rule?

دیلے ہیں کونسا دھاتی کاربونائل ۱۸ الیکٹران کے اصول کو نہیں مانتا؟

Options :

1. ✘ $\text{Ni}(\text{CO})_4$

2. ✘ $\text{Cr}(\text{CO})_6$

3. ✔ $\text{V}(\text{CO})_6$

4. ✘ $[\text{V}(\text{CO})_6]^-$

Question Number : 132 Question Id : 1455899821 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

At very high pressures the compressibility factor (z) for 1 mole of a gas is

بہت زیادہ دباؤ پر گیس کے اسدلم کے لئے داب ڈیبری
عامل (z) — ہے .

Options :

$$1 - \frac{pb}{RT}$$

1. ✘

$$1 + \frac{pb}{RT}$$

2. ✔

$$\frac{pb}{RT}$$

3. ✘

$$1 - \frac{b}{VRT}$$

4. ✘

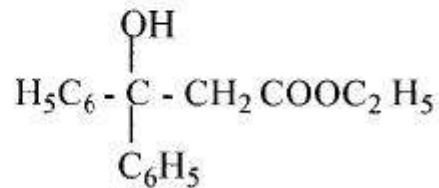
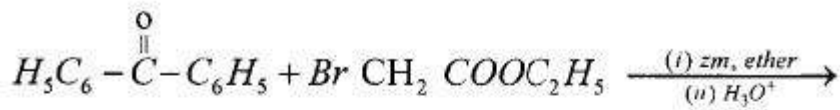
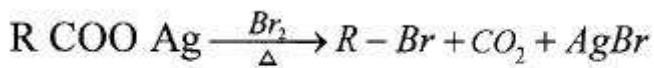
Question Number : 133 Question Id : 1455899822 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Identify Hunds diecker reaction form the following

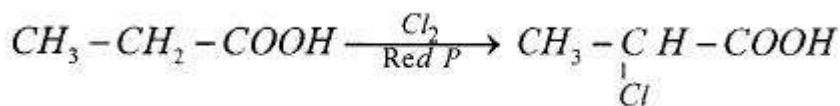
ذیل میں ہنڈس ڈیگر تعامل کی شکل کی شناخت کیجیے۔

Options :

1. ✔



2. ✘



3. ✘



4. ✘

Question Number : 134 Question Id : 1455899823 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

The IUPAC name of the complex $[Cr Br_2(en)_2]Cl$ is

کے نام IUPAC کا مطلبی کا $[Cr Br_2(en)_2]Cl$

Options :

1. ✘

Chlorido dibromido bis - (ethane -1, 2 - diamine) chromium (III)

کلورائیڈو ڈائی برومائیڈو بیس - (ایٹھین - 1, 2 - ڈائی امین) کرومیم (III)

Dibromide bis - (ethane -1, 2 - diamine) chromium (III) Chloride

ڈائی برومائیڈو بیس - (ایٹھین - 1, 2 - ڈائی امین) کرومیم (III) کلورائیڈ

2. ✓

bis - (ethane -1, 2 - diamine) dibromido chromium (III) Chloride

بیس - (ایٹھین - 1, 2 - ڈائی امین) ڈائی برومائیڈو کرومیم (III) کلورائیڈ

3. ✗

dibromido bis - (ethane -1, 2 - diamine) chromium (VI) Chloride

ڈائی برومائیڈو بیس - (ایٹھین - 1, 2 - ڈائی امین) کرومیم (VI) کلورائیڈ

4. ✗

Question Number : 135 Question Id : 1455899824 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

The bond order of O_2 molecule is x . the bond orders of O_2^- and O_2^+ are respectively

O_2 سالمہ کا بند درجہ x ہے۔ O_2^- اور O_2^+ کے بند درجات بالترتیب — ہیں۔

Options :

$$\frac{3x}{2}, \frac{3x}{4}$$

1. ✘

$$\frac{x}{2}, \frac{3x}{2}$$

2. ✘

$$\frac{5x}{4}, \frac{3x}{4}$$

3. ✘

$$\frac{3x}{4}, \frac{5x}{4}$$

4. ✔

Question Number : 136 Question Id : 1455899825 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Nitro benzene on reduction in acidic medium gives

نٹرو بنزیں واسطے میں نائٹرو بنزیں کو تحلیل کرنے پر حاصل ہوتا ہے

Options :

1. ✘

Nitroso benzene

نائٹرو سو بنزین

Aniline

انیلین

2. ✓

Azobenzene

ازو بنزین

3. ✗

Phenyl hydroxyl amine

فینائیل ہائیڈرو آکسائیڈ امین

4. ✗

Question Number : 137 Question Id : 1455899826 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

The colour of Cu (II) is blue, whereas two colour of Cu (I) is

اگر $Cu(II)$ کا رنگ نیلا ہے، تب $Cu(I)$ کا رنگ - ہے

Options :

1. ✓

Colour less

بے رنگ

Light blue

ہلکا نیلا

2. ✖

Green

سبز

3. ✖

Bluish green

نیلا سبز

4. ✖

Question Number : 138 Question Id : 1455899827 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

The compressibility factor of an ideal gas is,

ایڈ کمپریبیلٹی فیکٹور کا داب ڈیڈیری عامل — ہے۔

Options :

1. ✓ 1.0

2. ✖ 1.5

3. ✖ 2.0

4. ✖ 10

Question Number : 139 Question Id : 1455899828 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

When acetone is reduced with excess of sodium and ethanol, it produces

جب ايسٽون کو سدیم اور ایتھنل کی زیادہ مقدار سے
کھویں کیا جاتا ہے۔ تب — حاصل ہوتا ہے۔

Options :

Ethyl alcohol

ایٹھنل الکوحل

1. ✖

Butyl alcohol

بیوٹائل الکوحل

2. ✖

3. ✖

n-propyl alcohol

n- پروپائل الکل

Iso propyl alcohol

ایسوپروپائل الکل

4. ✓

Question Number : 140 Question Id : 1455899829 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Which of the following elements when dopped to germanium gives P-type

semi conductor?

جب جرمنیم کو — عنصر سے آمیزش شدہ لیا جاتا ہے، تو
P- قسم کا نیم موصل حاصل ہوتا ہے۔

Options :

Carbon

کاربن

1. ✘

Phosphorous

فاسفورس

2. ✘

3. ✘

Sulphur

سلفر

Aluminium

الومینیم

4. ✓

Question Number : 141 Question Id : 1455899830 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Gibbs phase rule for heterogeneous system can correctly be written as

غیر متجانس نظام کے لیے جیبس کے پیت اصول کو لکھنے کا
موزوں طریقہ یہ ہے —

Options :

1. ✗ $F = C + P + 2$

2. ✓ $F = C - P + 2$

3. ✗ $P = F - C + 2$

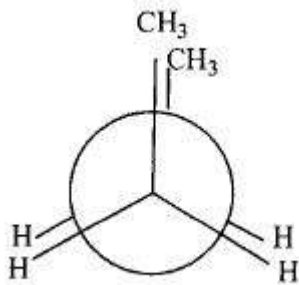
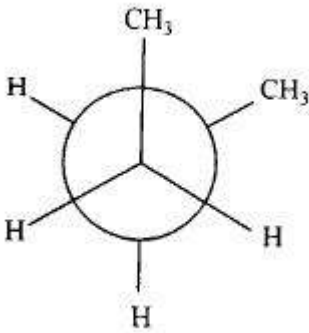
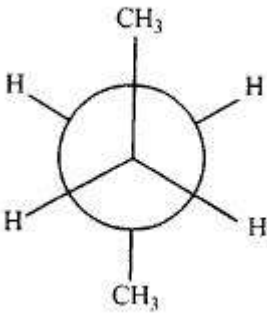
4. ✗ $P = F - C + 1$

Question Number : 142 Question Id : 1455899831 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

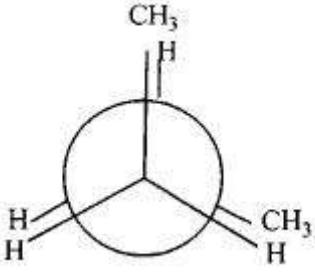
The most stable conformer of butane is

بیوٹین کی سب سے زیادہ مستحکم تشکیل

Options :



4. ✗



Question Number : 143 Question Id : 1455899832 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

A colloidal system in which liquid dispersed in solid is called

ایک لمبونی (کولائیڈیل) نظام .. جس میں مائع، ٹھوس
صیغہ منتشر ہوتا ہے — لپاتا ہے۔

Options :

Gel

جیل

1. ✓

Emulsion

شیرہ

2. ✗

Foam

جھاڑ

3. ✗

4. ✗

Sol

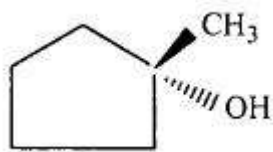
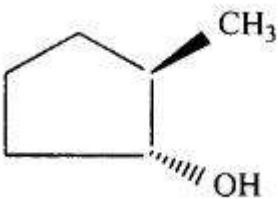
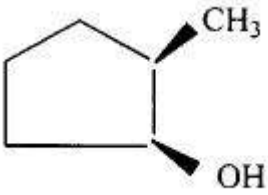
(سول) لیسیم

Question Number : 144 Question Id : 1455899833 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

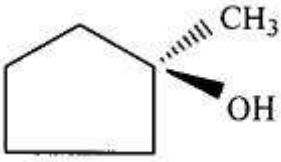
The major product in the following reaction is,

دیلے کے تعامل میں سب سے زیادہ اہم مرکب ہے۔

Options :



4. ✘



Question Number : 145 Question Id : 1455899834 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

The incorrect statement about physisorption is

طبعی الجذاب سے متعلق یہ غلط بیان ہے۔

Options :

It decreases with increase in temperature

1. ✘ درجہ حرارت میں اضافہ کے ساتھ یہ کم ہو جاتا ہے۔

It is a multilayered adsorption

2. ✘ یہ ایک کثیر پرتوں والا الجذاب ہے۔

It requires high activation energy

3. ✔ اس کے لیے اعلیٰ عامل توانائی کی ضرورت ہوتی ہے۔

4. ✘

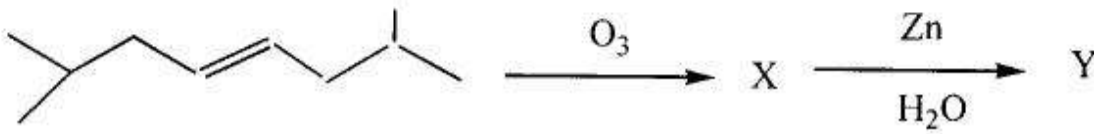
Enthalpy change is about 20 kJ mol^{-1}

این مقدار فی کی تبدیلی تقریباً 20 kJ mol^{-1} ہوتی ہے۔

Question Number : 146 Question Id : 1455899835 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

The product 'Y' formed in the reaction sequence is

تعمالی سلسلہ میں حاصل "Y" ہے۔



Options :

Aldehyde

آلڈی ہائیڈ

1. ✓

Ketone

کیٹون

2. ✗

Carboxylic acid

کاربائلزیکلک سیرس

3. ✖

Aldehyde + Ketone

الڈی ہائڈ + کیٹون

4. ✖

Question Number : 147 Question Id : 1455899836 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

The unit cell parameters of a crystal lattice are $a = 4.2 \text{ \AA}$, $b = 3.7 \text{ \AA}$, $c = 10.6$

\AA , $\alpha = \beta = \gamma = 90^\circ$. The crystal lattice belongs to

الڈی ہائڈ کیٹون کے پیرامیٹرز $a = 4.2 \text{ \AA}$ ، $b = 3.7 \text{ \AA}$ اور $c = 10.6 \text{ \AA}$ اور $\alpha = \beta = \gamma = 90^\circ$ ہیں۔ اس لیے یہ فکس جالی کا نکلن ہے۔

Options :

Cubic

مکعبی

1. ✖

Triclinic

سہ مائلہ

2. ✖

Monoclinic

ایک حائلہ

3. ✘

Ortho rhombic

معیّن نما

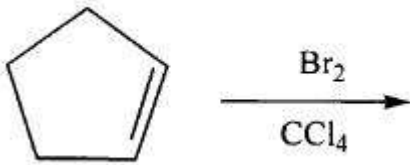
4. ✔

Question Number : 148 Question Id : 1455899837 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

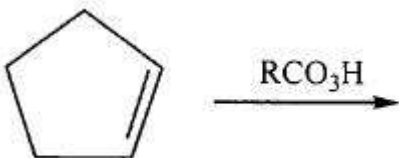
Which one of the following reactions will generate a pair of enantiomers?

ذیل میں یہ تعاملی مناظری ہم ترکیب کے جوڑے کو پیدا کرتا ہے

Options :

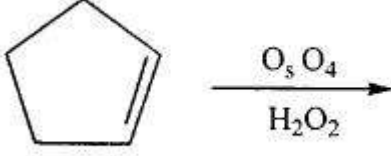
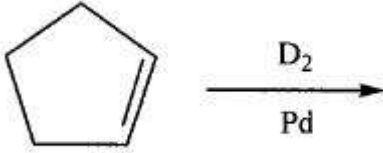


1. ✔



2. ✘

3. ✘



4. ✘

Question Number : 149 Question Id : 1455899838 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Identify the pair of liquids which can represent a system with only upper critical solution temperature.

مائعوں کے اس جوڑے کی شناخت کریں جو صرف فاصلہ محلول کی اوپری تنفس کے ساتھ نظام کی نمائندگی کر سکتا ہے۔

Options :

Phenol + H₂O

فینال + پانی

1. ✔

Diethyl amine + H₂O

ڈائی ایتھیل امین + پانی

2. ✘

3. ✘

Nicotine + H₂O

ناٹیکوٹین + پانی

Ethanol + H₂O

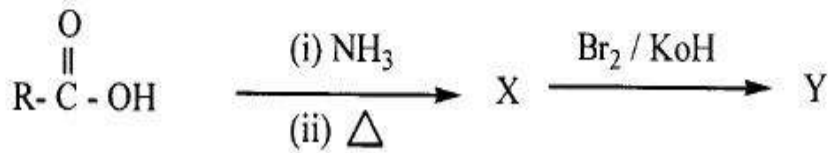
ایٹھانال + پانی

4. ✖

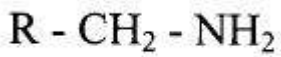
Question Number : 150 Question Id : 1455899839 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

The product 'Y' in the given reaction sequence is

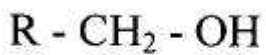
دئے گئے تعاملی سلسلہ میں محاصل 'Y' ہے۔



Options :



1. ✖



2. ✖



3. ✖

4. ✓ R - NH₂