OFFICIAL PREVIOUS YEAR PAPER

AAI JE AO

Junior Executive (Airport Operations)

17 September 2016

Conducted by	Airports Authority of India
Questions	120, all multiple choice

Sections		
	General Knowledge	15
	Reasoning	15
	Numerical Ability	15
	English	15
	Domain Knowledge	60

Green tick = AAI's official answer.
Candidate details removed; nothing else changed.
Attempt it as a 120-minute mock, then check.
Scan the code for all previous papers.

All papers, free

Question Paper Preview

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:	JE AIRPORT OPERATION
Subject Name:	JE AIRPORT OPERATION
Creation Date:	2016-09-17 12:38:42
Duration:	120
Total Marks:	120
Display Marks:	No
Calculator:	None
Magnifying Glass Required?:	No
Ruler Required?:	No
Eraser Required?:	No
Scratch Pad Required?:	No
Rough Sketch/Notepad Required?:	No
Protractor Required?:	No

JE AIRPORT OPERATION

Group Number :	1
Group Id :	7508814
Group Maximum Duration :	0
Group Minimum Duration :	120
Revisit allowed for view? :	No
Revisit allowed for edit? :	No
Break time:	0
Mandatory Break time:	No
Group Marks:	120

General Knowledge

Section Id :	75088116
Section Number :	1
Section type :	Online
Mandatory or Optional:	Mandatory
Number of Questions:	15
Number of Questions to be attempted:	15
Section Marks:	15
Display Number Panel:	Yes
Group All Questions:	No

Sub-Section Number:	1
Sub-Section Id:	75088116
Question Shuffling Allowed :	Yes

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Question Number : 1 Question Id : 750881361 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 1 Wrong : 0

Which is the apex banking institution for providing finance for agriculture and rural development in India?

Options :

1. ✖ RBI
2. ✖ SEBI
3. ✖ IBRD
4. ✔ NABARD

Question Number : 1 Question Id : 750881361 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 1 Wrong : 0

निम्नलिखित में से कौन-सी भारत में कृषि और ग्रामीण विकास के लिए वित्त उपलब्ध कराने वाली सर्वोच्च बैंकिंग संस्था है?

Options :

1. ✖ भारतीय रिजर्व बैंक
2. ✖ भारतीय प्रतिभूति और विनिमय बोर्ड
3. ✖ आई.बी.आर.डी
4. ✔ नाबार्ड

Question Number : 2 Question Id : 750881362 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 1 Wrong : 0

As per the 2011 Census, _____ has the highest percentage of households having electricity as a source of lighting and power?

Options :

1. ✖ Maharashtra
2. ✖ Delhi
3. ✔ Lakshadweep
4. ✖ Daman and Diu

Question Number : 2 Question Id : 750881362 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 1 Wrong : 0

2011 की जनगणना के अनुसार, _____ प्रकाश व्यवस्था और ऊर्जा के लिए विद्युत् शक्ति (इलेक्ट्रिसिटी) का प्रयोग करने वाले परिवारों की मात्रा (प्रतिशत) किस राज्य में सबसे ज्यादा है?

Options :

1. ✖ महाराष्ट्र
2. ✖ दिल्ली
3. ✔ लक्षद्वीप

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4. ✖ दमन और दीव

Question Number : 3 Question Id : 750881363 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 1 Wrong : 0

Which of the following ancient poet wrote *Abhijnanashakuntalam*?

Options :

1. ✖ Bhasa
2. ✖ Shudhraka
3. ✖ Aryabhat
4. ✔ Kalidasa

Question Number : 3 Question Id : 750881363 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 1 Wrong : 0

निम्नलिखित में से किस प्राचीन कवि ने 'अभिज्ञानशाकुन्तलम' की रचना की?

Options :

1. ✖ भास
2. ✖ शूद्रक
3. ✖ आर्यभट
4. ✔ कालिदास

Question Number : 4 Question Id : 750881364 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 1 Wrong : 0

What was *Tauhid-i-Ilahi*?

Options :

1. ✔ A new religion set up by emperor Akbar
2. ✖ A religious tax imposed by Aurangazeb
3. ✖ A book written by Shahjahan
4. ✖ A Sufi epic poem

Question Number : 4 Question Id : 750881364 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 1 Wrong : 0

तौहीद-ए-इलाही क्या था?

Options :

1. ✔ समाट अकबर द्वारा स्थापित एक नया धर्म
2. ✖ औरंगजेब द्वारा लगाया गया एक धार्मिक कर
3. ✖ शाहजहां द्वारा लिखित किताब

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4. ✖ एक सूफी महाकाव्य

Question Number : 5 Question Id : 750881365 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 1 Wrong : 0

Which statement about the President of India is not correct?

Options :

1. ✔ The President is the head of the government.

2. ✖ The President is the highest executive authority in the country.

3. ✖ The President appoints the Prime Minister.

4. ✖ The President of India enjoys only nominal powers.

Question Number : 5 Question Id : 750881365 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 1 Wrong : 0

निम्नलिखित में कौन-सा भारत के राष्ट्रपति के बारे कथन सही नहीं है?

Options :

1. ✔ राष्ट्रपति सरकार के प्रमुख है।

2. ✖ राष्ट्रपति देश के सर्वोच्च कार्यकारी अधिकार है।

3. ✖ राष्ट्रपति प्रधानमंत्री की नियुक्ति करते है।

4. ✖ भारत के राष्ट्रपति को केवल नाममात्र शक्तियां प्राप्त है।

Question Number : 6 Question Id : 750881366 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 1 Wrong : 0

India has a _____ system.

Options :

1. ✖ two-party

2. ✔ multi-party

3. ✖ single party

4. ✖ no party

Question Number : 6 Question Id : 750881366 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 1 Wrong : 0

भारतीय राजनीतिक व्यवस्था में _____ प्रणाली का प्रावधान है।

Options :

1. ✖ दो-दलीय

2. ✔ बहु-दलीय

3. ✖ एक-दलीय

4. ✖ निर्दलीय

Question Number : 7 Question Id : 750881367 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 1 Wrong : 0

Which type of house is not correctly paired with the region where it is built?

Options :

1. ✖ Igloo – Arctic Region

2. ✖ Mud house – Mexico

3. ✖ Stilt House – South East Asia

4. ✔ House Boat – Sub-Saharan Africa

Question Number : 7 Question Id : 750881367 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 1 Wrong : 0

निम्नलिखित में से निवास स्थान और (भौगोलिक) प्रदेश की कौन-सी जोड़ी विसंगत है?

Options :

1. ✖ इग्लू - आर्कटिक क्षेत्र

2. ✖ मिट्टी का घर - मेक्सिको

3. ✖ पैरबाँसा घर - दक्षिण-पूर्व एशिया

4. ✔ हाउस बोट - उप-सहारा अफ्रीका

Question Number : 8 Question Id : 750881368 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 1 Wrong : 0

Which is the second most densely populated city in India?

Options :

1. ✖ Mumbai

2. ✖ Delhi

3. ✔ Kolkata

4. ✖ Chennai

Question Number : 8 Question Id : 750881368 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 1 Wrong : 0

भारत में दूसरा सबसे घनी आबादी वाला शहर कौन-सा है?

Options :

1. ✖ मुंबई

2. ✖ दिल्ली

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3. ✔ कोलकाता

4. ✖ चेन्नई

Question Number : 9 Question Id : 750881369 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 1 Wrong : 0

Who developed the oral polio vaccine?

Options :

1. ✖ Edward Jenner

2. ✔ Albert Sabin

3. ✖ Michiaki Takahashi

4. ✖ Louis Pasteur

Question Number : 9 Question Id : 750881369 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 1 Wrong : 0

निम्नलिखित में से किसने मौखिक पोलियो वैक्सीन का विकास किया?

Options :

1. ✖ एडवर्ड जेनर

2. ✔ अल्बर्ट साबिन

3. ✖ मिशिआकी ताकाहाशी

4. ✖ लुई पास्चर

Question Number : 10 Question Id : 750881370 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 1 Wrong : 0

Which of the following is a festival celebrated by Parsis (Zoroastrians)?

Options :

1. ✖ Shab-e-Qadr

2. ✖ Navroz

3. ✔ Zend Avesta

4. ✖ The Dree Festival

Question Number : 10 Question Id : 750881370 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 1 Wrong : 0

इनमें से कौन-सा त्योहार पारसी समुदाय द्वारा मनाया जाता है?

Options :

1. ✖ शब-ए-कदर

2. ✖ नवरोज़

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3. ✔ ज़ेन्ड अवेस्ता

4. ✖ द्री महोत्सव

Question Number : 11 Question Id : 750881371 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 1 Wrong : 0

Who wrote the famous novel 'Anandmath'?

Options :

1. ✔ Bankim Chandra Chatterji

2. ✖ Sarat Chandra Chattopadhyay

3. ✖ Rabindra Nath Tagore

4. ✖ Satyajit Ray

Question Number : 11 Question Id : 750881371 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 1 Wrong : 0

प्रसिद्ध उपन्यास 'आनन्दमठ' किसकी रचना है?

Options :

1. ✔ बंकिमचंद्र चटर्जी

2. ✖ शरत चंद्र चट्टोपाध्याय

3. ✖ रवींद्र नाथ टैगोर

4. ✖ सत्यजीत रे

Question Number : 12 Question Id : 750881372 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 1 Wrong : 0

Who is Dipa Karmakar?

Options :

1. ✔ The first female Indian gymnast ever to qualify for Olympic Games

2. ✖ The captain of Indian women's cricket team

3. ✖ National Junior Chess Champion

4. ✖ Winner of Khel Ratna Award 2015

Question Number : 12 Question Id : 750881372 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 1 Wrong : 0

दीपा करमाकर कौन है?

Options :

1. ✔ ओलंपिक में क्वालीफाई करने वाली पहली भारतीय महिला जिमनास्ट

2. ✖ भारतीय महिला क्रिकेट टीम की कप्तान

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3. ✖ राष्ट्रीय जूनियर शतरंज चैंपियन

4. ✖ खेल रत्न 2015 पुरस्कार की विजेता

Question Number : 13 Question Id : 750881373 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 1 Wrong : 0

Who is the current Chief Election Commissioner of India?

Options :

1. ✖ Navin Chawla

2. ✖ S. Y. Quraishi

3. ✖ Naseem Ahmad

4. ✔ Nasim Zaidi

Question Number : 13 Question Id : 750881373 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 1 Wrong : 0

भारत के वर्तमान मुख्य चुनाव आयुक्त कौन है?

Options :

1. ✖ नवीन चावला

2. ✖ शाहबुद्दीन याकूब कुरैशी

3. ✖ नसीम अहमद

4. ✔ नसीम जैदी

Question Number : 14 Question Id : 750881374 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 1 Wrong : 0

Who is the current chairperson of Rajya Sabha?

Options :

1. ✖ P. J. Kurien

2. ✖ Najeeb Jung

3. ✖ Sumitra Mahajan

4. ✔ Mohammad Hamid Ansari

Question Number : 14 Question Id : 750881374 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 1 Wrong : 0

राज्य सभा के वर्तमान अध्यक्ष कौन है?

Options :

1. ✖ पी जे कुरियन

2. ✖ नजीब जंग

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3. ✖ सुमित्रा महाजन

4. ✔ मोहम्मद हामिद अंसारी

Question Number : 15 Question Id : 750881375 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 1 Wrong : 0

Who is the current Secretary-General of the United Nations?

Options :

1. ✖ Jim Yong Kim

2. ✔ Ban Ki-Moon

3. ✖ Kofi Annan

4. ✖ Jan Eliasson

Question Number : 15 Question Id : 750881375 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 1 Wrong : 0

संयुक्त राष्ट्र के मौजूदा महासचिव कौन है?

Options :

1. ✖ जिम यौंग किम

2. ✔ बान की मून

3. ✖ कोफी अन्नान

4. ✖ जैन एलियासन

General Intelligence

Section Id :	75088117
Section Number :	2
Section type :	Online
Mandatory or Optional:	Mandatory
Number of Questions:	15
Number of Questions to be attempted:	15
Section Marks:	15
Display Number Panel:	Yes
Group All Questions:	No

Sub-Section Number:	1
Sub-Section Id:	75088117
Question Shuffling Allowed :	Yes

Question Number : 16 Question Id : 750881376 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 1 Wrong : 0

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Select the related letters from the given alternatives.
FHJL : USQO :: PRTV : ?

Options :

1. ✖ QSUW
2. ✔ KIGE
3. ✖ MJGD
4. ✖ EGIL

Question Number : 16 Question Id : 750881376 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 1 Wrong : 0

दिए गए विकल्पों में से संबंधित अक्षरों का चयन करें।

FHJL : USQO :: PRTV : ?

Options :

1. ✖ QSUW
2. ✔ KIGE
3. ✖ MJGD
4. ✖ EGIL

Question Number : 17 Question Id : 750881377 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 1 Wrong : 0

Select the related numbers from the given alternatives.
23 : 34 :: 47 : ?

Options :

1. ✖ 56
2. ✖ 60
3. ✔ 62
4. ✖ 69

Question Number : 17 Question Id : 750881377 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 1 Wrong : 0

दिए गए विकल्पों में से संबंधित संख्याओं का चयन करें।

23 : 34 :: 47 : ?

Options :

1. ✖ 56
2. ✖ 60
3. ✔ 62
4. ✖ 69

Question Number : 18 Question Id : 750881378 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

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Correct : 1 Wrong : 0

Select the one which is different from other three alternatives.

Options :

1. ✔ Advance : Retreat
2. ✖ Assign : Allot
3. ✖ Vacant : Empty
4. ✖ Solicit : Request

Question Number : 18 Question Id : 750881378 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 1 Wrong : 0

दिए गए विकल्पों में से उस एक का चयन करें जो अन्य तीन से भिन्न है।

Options :

1. ✔ आगे बढ़ना : पीछे हटना
2. ✖ सौंपना : नियत करना
3. ✖ रिक्त : खाली
4. ✖ मांगना : निवेदन

Question Number : 19 Question Id : 750881379 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 1 Wrong : 0

Select the one which is different from other three alternatives.

Options :

1. ✖ 27 : 72
2. ✖ 38 : 83
3. ✖ 45 : 54
4. ✔ 56 : 68

Question Number : 19 Question Id : 750881379 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 1 Wrong : 0

दिए गए विकल्पों में से उस एक का चयन कीजिए जो अन्य तीन से भिन्न है।

Options :

1. ✖ 27 : 72
2. ✖ 38 : 83
3. ✖ 45 : 54
4. ✔ 56 : 68

Question Number : 20 Question Id : 750881380 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 1 Wrong : 0

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Choose the correct alternative from the given ones which will complete the letter series.
BMX, EOW, HQV, ? , NUT

Options :

1. ✖ IRU
2. ✔ KSU
3. ✖ KRV
4. ✖ LSU

Question Number : 20 Question Id : 750881380 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 1 Wrong : 0

दिए गए विकल्पों में से सही विकल्प का चयन कीजिए जो इस अक्षर श्रृंखला को पूरा करता है।

BMX, EOW, HQV, ? , NUT

Options :

1. ✖ IRU
2. ✔ KSU
3. ✖ KRV
4. ✖ LSU

Question Number : 21 Question Id : 750881381 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 1 Wrong : 0

Choose the correct alternative from the given ones which will complete the number series.
6, 11, 20, 37, 70, ?

Options :

1. ✔ 135
2. ✖ 125
3. ✖ 117
4. ✖ 103

Question Number : 21 Question Id : 750881381 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 1 Wrong : 0

दिए गए विकल्पों में से सही विकल्प का चयन करें जो इस संख्या शृंखला को पूरा करता है।

6, 11, 20, 37, 70, ?

Options :

1. ✔ 135
2. ✖ 125
3. ✖ 117
4. ✖ 103

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Question Number : 22 Question Id : 750881382 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 1 Wrong : 0

Six friends J, K, L, M, N and O are sitting around a circle facing towards the centre. J is not adjacent to K or L; M is not adjacent L or N; K and L are adjacent. O is in the middle of M and L. If one neighbour of J is M, who is the other one?

Options :

1. ✖ K
2. ✖ L
3. ✔ N
4. ✖ O

Question Number : 22 Question Id : 750881382 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 1 Wrong : 0

छह दोस्त J, K, L, M, N और O एक गोल घेरे में केंद्र की ओर मुंह करके बैठे हैं। J, K या L के बगल में नहीं है; M, L या N के बगल में नहीं है; K और L अगल-बगल हैं। O, M और L के बीच में है। यदि J के एक तरफ M है तो दूसरी तरफ कौन बैठा है?

Options :

1. ✖ K
2. ✖ L
3. ✔ N
4. ✖ O

Question Number : 23 Question Id : 750881383 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 1 Wrong : 0

P is Q's brother; R is P's mother; S is R's father; Q is S's granddaughter. How is Q related to T who is P's son?

Options :

1. ✔ Aunt
2. ✖ Cousin
3. ✖ Grand Aunt
4. ✖ Niece

Question Number : 23 Question Id : 750881383 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 1 Wrong : 0

P, Q का भाई है; R, P की मां है; S, R का पिता है; Q, S की पोती है। Q, T से किस प्रकार संबंधित है जो P का पुत्र है?

Options :

1. ✔ बुआ
2. ✖ चचेरा भाई/बहन
3. ✖ चचिया दादी
4. ✖ भतीजी

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Question Number : 24 Question Id : 750881384 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 1 Wrong : 0

From the given alternatives, select the word which can be formed using the letters of the given word. You can use a letter only as many times as it appears in the word below.

DISPROPORTIONATE

Options :

1. ✖ PERSONAL
2. ✖ DISPOSE
3. ✖ PROPONENT
4. ✔ STATION

Question Number : 24 Question Id : 750881384 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 1 Wrong : 0

निम्नलिखित विकल्पों में से उस शब्द को चुनें जिसे दिए गए शब्द के अक्षरों से बनाया जा सके। आप इन अक्षरों का उपयोग मात्र उतनी बार कर सकते हैं जितनी बार की वे अक्षर नीचे दिए गए शब्द में हैं।

DISPROPORTIONATE

Options :

1. ✖ PERSONAL
2. ✖ DISPOSE
3. ✖ PROPONENT
4. ✔ STATION

Question Number : 25 Question Id : 750881385 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 1 Wrong : 0

If in a certain code language PORTER is written as TSVXIV, how would SHOWER be written in that code?

Options :

1. ✖ WLASIV
2. ✔ WLSAIV
3. ✖ VKRZIV
4. ✖ REWOHS

Question Number : 25 Question Id : 750881385 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 1 Wrong : 0

यदि किसी निश्चित कूट भाषा में PORTER को TSVXIV लिखा जाता है तो इस कूट भाषा में SHOWER को क्या लिखा जाएगा?

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Options :

1. ✖ WLASIV
2. ✔ WLSAIV
3. ✖ VKRZIV
4. ✖ REWOHS

Question Number : 26 Question Id : 750881386 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 1 Wrong : 0

Some equations are solved on the basis of a certain system. Find the correct answer for the unsolved equation on that basis.

452 = 45, 371 = 59, 253 =?

Options :

1. ✖ 10
2. ✖ 30
3. ✔ 38
4. ✖ 42

Question Number : 26 Question Id : 750881386 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 1 Wrong : 0

कुछ समीकरणों को किसी निश्चित प्रणाली के आधार पर हल किया जाता है। इस आधार पर अनसुलझे समीकरण के लिए सही उत्तर ज्ञात करें।

452 = 45, 371 = 59, 253 = ?

Options :

1. ✖ 10
2. ✖ 30
3. ✔ 38
4. ✖ 42

Question Number : 27 Question Id : 750881387 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 1 Wrong : 0

Mukesh walked 20 metres towards South. Then he turned to his left and walked 10 metres. He then turned to his left and walked 20 metres. He again turned to his right and walked 7 metres. At what distance and in which direction is Mukesh from the starting point?

Options :

1. ✖ 17 metres towards North
2. ✔ 17 metres towards East
3. ✖ 27 metres towards South
4. ✖ 27 metres towards West

Question Number : 27 Question Id : 750881387 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 1 Wrong : 0

मुकेश 20 मीटर दक्षिण की ओर चलता है। फिर वह अपने बाएं मुड़ता है और 10 मीटर चलता है। वह फिर अपने बाएं मुड़ता है और 20 मीटर चलता है। वह फिर से अपने दाएं मुड़ता है और 7 मीटर चलता है। अब मुकेश शुरुआती बिंदु से कितनी दूर और किस दिशा में है?

Options :

1. ✖ उत्तर की ओर 17 मीटर
2. ✔ पूर्व की ओर 17 मीटर
3. ✖ दक्षिण की ओर 27 मीटर
4. ✖ पश्चिम की ओर 27 मीटर

Question Number : 28 Question Id : 750881388 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 1 Wrong : 0

Consider the given statements to be true even if they seem to be at variance from commonly known facts. You have to decide which one of the conclusion(s) can definitely be drawn from these statements.

Statements:

(i) All fruits are flowers.
(ii) No flowers are leaves.

Conclusions:

I. No fruits are leaves.
II. All flowers are fruits.

Options :

1. ✔ Only conclusion I follows
2. ✖ Only conclusion II follows
3. ✖ Both conclusions I and II follow
4. ✖ Neither conclusion I and II follow

Question Number : 28 Question Id : 750881388 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 1 Wrong : 0

दिए गए कथनों को सही मान कर चलना है चाहे वे सामान्य ज्ञात तथ्यों से भिन्न प्रतीत होते हों। आपको निर्णय करना है कि दिए गए कथनों में से कौन सा (से) निष्कर्ष निश्चित रूप से निकाला जा सकता है (निकाले जा सकते हैं)।

कथन:

(i) सभी फल फूल हैं।
(ii) कोई भी फूल पत्ती नहीं हैं।

निष्कर्ष:

I. कोई भी फल पत्ती नहीं हैं।
II. सभी फूल फल हैं।

Options :

1. ✔ केवल निष्कर्ष I अनुसरण करता है।
2. ✖ केवल निष्कर्ष II अनुसरण करता है।

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3. ✖ I और II दोनों निष्कर्ष अनुसरण करते हैं।

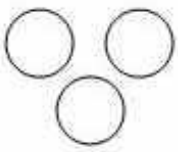
4. ✖ ना तो I और ना ही II अनुसरण करता है।

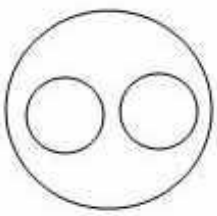
Question Number : 29 Question Id : 750881389 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

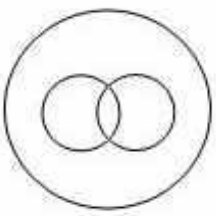
Correct : 1 Wrong : 0

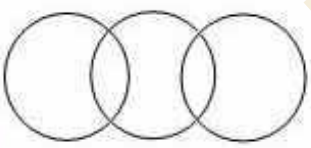
Select the diagram that best represents the relationship among classes given below.
Red, Shirts, Flowers

Options :

1. ✖ 

2. ✖ 

3. ✖ 

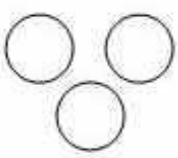
4. ✔ 

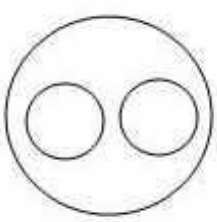
Question Number : 29 Question Id : 750881389 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 1 Wrong : 0

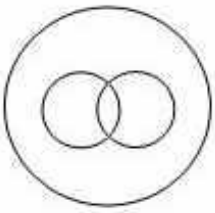
उस आरेख की पहचान करें जो नीचे दिए गए वर्गों के संबंध को सबसे बेहतर तरीके से दर्शाता है।
लाल, कमीज, फूल

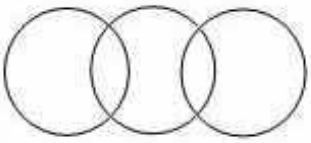
Options :

1. ✖ 

2. ✖ 

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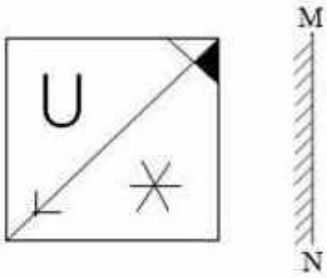
3. ✖ 

4. ✔ 

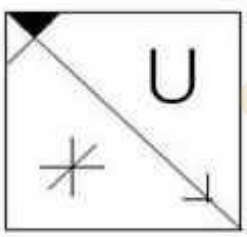
Question Number : 30 Question Id : 750881390 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

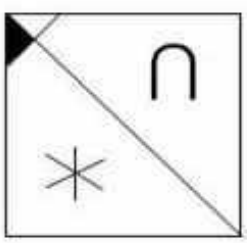
Correct : 1 Wrong : 0

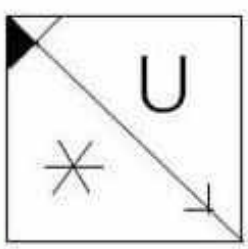
Which of the answer figures is exactly the mirror image of the given figure, when mirror is held at MN line?

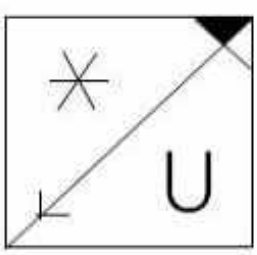


Options :

1. ✖ 

2. ✖ 

3. ✔ 

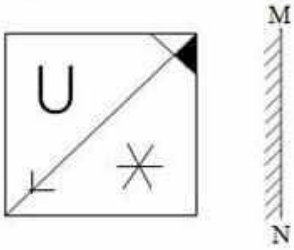
4. ✖ 

Question Number : 30 Question Id : 750881390 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

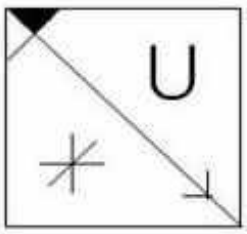
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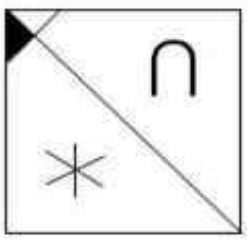
Correct : 1 Wrong : 0

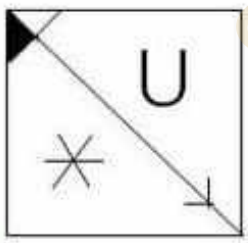
यदि दर्पण को MN लाइन में रखा जाए तो निम्नांकित उत्तर आकृतियों में से दी गई आकृति का दर्पण प्रतिबिम्ब कौन सा होगा?

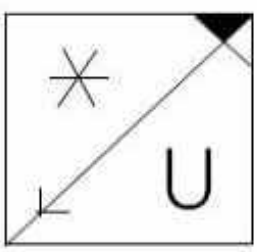


Options :

1. ✖


2. ✖


3. ✔


4. ✖


General Aptitude

Section Id :	75088118
Section Number :	3
Section type :	Online
Mandatory or Optional:	Mandatory
Number of Questions:	15
Number of Questions to be attempted:	15
Section Marks:	15
Display Number Panel:	Yes
Group All Questions:	No

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Sub-Section Number: 1
Sub-Section Id: 75088118
Question Shuffling Allowed : Yes

Question Number : 31 Question Id : 750881391 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 1 Wrong : 0

What is the smallest 4-digit number which is divisible by 18, 24 and 32?

Options :

1. ✖ 1112
2. ✔ 1152
3. ✖ 1440
4. ✖ 1584

Question Number : 31 Question Id : 750881391 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 1 Wrong : 0

4 अंको की वह छोटी से छोटी संख्या कौन सी है जो 18, 24 और 32 से पूर्णत: विभाजित है?

Options :

1. ✖ 1112
2. ✔ 1152
3. ✖ 1440
4. ✖ 1584

Question Number : 32 Question Id : 750881392 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 1 Wrong : 0

Two containers contain 850 litres and 680 litres of oil respectively. What is the maximum capacity of a container which can measure the oil of both containers an exact number of times?

Options :

1. ✖ 10
2. ✖ 17
3. ✖ 85
4. ✔ 170

Question Number : 32 Question Id : 750881392 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 1 Wrong : 0

दो कंटेनरों में क्रमश: 850 लीटर और 680 लीटर तेल है। उस कंटेनर की अधिकतम धारिता क्या होगी जो दोनों कंटेनरों के तेल को एक सटीक संख्या के गुना में माप सके?

Options :

1. ✖ 10
2. ✖ 17

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3. ✖ 85

4. ✔ 170

Question Number : 33 Question Id : 750881393 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 1 Wrong : 0

Both x and y vary directly with each other and when x =20, y =28. Which of the following is not a possible pair of corresponding values?

Options :

1. ✖ 25 : 35

2. ✔ 35 : 25

3. ✖ 35 : 49

4. ✖ 15 : 21

Question Number : 33 Question Id : 750881393 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 1 Wrong : 0

दोनों x और y एक दूसरे के साथ प्रत्यक्ष रूप से परिवर्तित होते हैं और जब x=20 है तो y=28 होता है। निम्नलिखित में से कौन से संगत मानों के लिए जोड़ा संभव नहीं है?

Options :

1. ✖ 25 : 35

2. ✔ 35 : 25

3. ✖ 35 : 49

4. ✖ 15 : 21

Question Number : 34 Question Id : 750881394 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 1 Wrong : 0

If a : b = 5 : 7, b : c = 2 : 3, what is the value of c : a?

Options :

1. ✔ 21 : 10

2. ✖ 10 : 21

3. ✖ 7 : 5

4. ✖ 3 : 5

Question Number : 34 Question Id : 750881394 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 1 Wrong : 0

यदि a:b=5:7, b:c=2:3, है, तो c:a का मान क्या है?

Options :

1. ✔ 21 : 10

2. ✖ 10 : 21

3. ✖ 7 : 5

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4. ✖ 3 : 5

Question Number : 35 Question Id : 750881395 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 1 Wrong : 0

If Rs. 600 become Rs.720 in 4 years, then what is the rate of simple interest per annum?

Options :

1. ✔ 5%

2. ✖ $\frac{25}{3}$%

3. ✖ $\frac{25}{2}$%

4. ✖ 15%

Question Number : 35 Question Id : 750881395 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 1 Wrong : 0

यदि 600 रूपये 4 वर्ष में 720 रूपये हो जाते हैं, तो साधारण ब्याज की वार्षिक दर क्या है?

Options :

1. ✔ 5%

2. ✖ $\frac{25}{3}$%

3. ✖ $\frac{25}{2}$%

4. ✖ 15%

Question Number : 36 Question Id : 750881396 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 1 Wrong : 0

A sum of 10,000 is invested at the rate of 8% per year for 12 months. What is Compound interest if interest is compounded half-yearly?

Options :

1. ✖ ₹ 800

2. ✔ ₹ 816

3. ✖ ₹ 960

4. ✖ ₹ 1060

Question Number : 36 Question Id : 750881396 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 1 Wrong : 0

10,000 की एक राशि 8% की वार्षिक दर से 12 माह के लिए निवेश की गयी। यदि ब्याज अर्द्धवार्षिक संयोजित होता है, तो चक्रवृद्धि ब्याज क्या होगा?

Options :

1. ✖ रू 800

2. ✔ रू 816

3. ✖ रू 960

4. ✖ रू 1060

Question Number : 37 Question Id : 750881397 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 1 Wrong : 0

Rekha offers a discount of 10% on mark price an article and still makes a profit of 25%. If cost price of article is ₹ 360, what is mark price of the article?

Options :

1. ✖ ₹ 450

2. ✖ ₹ 460

3. ✖ ₹ 486

4. ✔ ₹ 500

Question Number : 37 Question Id : 750881397 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 1 Wrong : 0

रेखा एक वस्तु के अंकित मूल्य पर 10% की छूट देने के पश्चात भी 25% का लाभ अर्जित करती है। एक वस्तु का क्रय मूल्य 360 रूपये है, तो वस्तु का अंकित मूल्य क्या होगा?

Options :

1. ✖ रू 450

2. ✖ रू 460

3. ✖ रू 486

4. ✔ रू 500

Question Number : 38 Question Id : 750881398 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 1 Wrong : 0

The selling price of 15 articles is equal to cost price of 12 articles. What is the loss in the whole transaction?

Options :

1. ✖ 10%

2. ✖ 20%

3. ✔ 25%

4. ✖ 30%

Question Number : 38 Question Id : 750881398 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 1 Wrong : 0

15 वस्तुओं का विक्रय मूल्य 12 वस्तुओं के क्रय मूल्य के बराबर है। पूरे लेन-देन में हानि क्या है?

Options :

1. ✖ 10%

2. ✖ 20%

3. ✔ 25%

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4. ✖ 30%

Question Number : 39 Question Id : 750881399 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 1 Wrong : 0

Two vessels A and B contains spirit and water in the ratio 5 : 7 and 3 : 5 respectively. Their contents are mixed in the ratio 3 : 4. What is the ratio of spirit and water in the new mixture?

Options :

1. ✖ 3 : 7
2. ✖ 7 : 3
3. ✖ 17 : 11
4. ✔ 11 : 17

Question Number : 39 Question Id : 750881399 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 1 Wrong : 0

दो बर्तनों A और B में स्पिरिट और पानी का अनुपात क्रमश: 5:7 और 3:5 है। उनके विलयनों को 3:4 अनुपात में मिश्रित किया जाता है। नये मिश्रण में स्पिरिट और पानी का अनुपात क्या है?

Options :

1. ✖ 3:7
2. ✖ 7:3
3. ✖ 17:11
4. ✔ 11:17

Question Number : 40 Question Id : 750881400 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 1 Wrong : 0

A train of length 110 m is moving with a speed of 72 km/h and another train of length 120 m is moving with a speed of 36 km/h in opposite direction along parallel tracks. What is the time taken in seconds to cross each other?

Options :

1. ✖ $\frac{20}{3}$
2. ✖ 11.2
3. ✔ 23
4. ✖ 24

Question Number : 40 Question Id : 750881400 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 1 Wrong : 0

एक 110 मी लंबी रेलगाड़ी 72 किमी/घंटा की चाल से चल रही है और एक अन्य 120 मी लंबी रेलगाड़ी विपरित दिशा में समानांतर पथ पर 36 किमी/घंटा की चाल से दौड़ रही है। एक दूसरे को पार करने में लिया गया समय सेकंड में क्या है?

Options :

1. ✖ $\frac{20}{3}$

2. ✖ 11.2

3. ✔ 23

4. ✖ 24

Question Number : 41 Question Id : 750881401 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 1 Wrong : 0

The speed of a boat in still water is 30 km/h and speed of stream is 6 km/h. What is the time taken by the boat in minutes to cover a distance of 12 km?

Options :

1. ✖ 18

2. ✔ 20

3. ✖ 25

4. ✖ 30

Question Number : 41 Question Id : 750881401 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 1 Wrong : 0

शांत जल में नाव की चाल 30 किमी/घंटा और धारा की चाल 6 किमी/घंटा है। 12 किमी की दूरी तय करने में नाव द्वारा लिया गया समय मिनटों में कितना है?

Options :

1. ✖ 18

2. ✔ 20

3. ✖ 25

4. ✖ 30

Question Number : 42 Question Id : 750881402 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 1 Wrong : 0

The fourth term of an A.P. is 3 and 12^{th} term is –13. What is the sum of the first 10 terms of the A.P.?

Options :

1. ✔ 0

2. ✖ –2

3. ✖ 2

4. ✖ 3

Question Number : 42 Question Id : 750881402 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 1 Wrong : 0

एक समान्तर श्रेणी (AP) का चौथा पद 3 और 12वाँ पद -13 है। समान्तर श्रेणी (AP) के पहले 10 पदों का योग कितना है?

Options :

1. ✔ 0

2. ✖ –2

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3. ✖ 2

4. ✖ 3

Question Number : 43 Question Id : 750881403 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 1 Wrong : 0

Arun can finish a work in 36 hours and Ballu is twice as efficient as Arun. If they work together, how many hours they will take to finish the same work?

Options :

1. ✖ 10

2. ✔ 12

3. ✖ 15

4. ✖ 18

Question Number : 43 Question Id : 750881403 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 1 Wrong : 0

अरुण एक कार्य को 36 घंटों में समाप्त कर सकता है और बल्लू, अरुण से दोगुना सक्षम है। यदि वे एक साथ मिलकर कार्य करते हैं तो उसी कार्य को समाप्त करने में कितने घंटे लगेंगे?

Options :

1. ✖ 10

2. ✔ 12

3. ✖ 15

4. ✖ 18

Question Number : 44 Question Id : 750881404 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 1 Wrong : 0

The angle of elevation of a 30 m high tower from two point on the ground are 30° and 45° respectively. If both points and base of the tower are in a line, the distance between two points is:

Options :

1. ✖ 30 m

2. ✖ $30\sqrt{3}$ m

3. ✔ $30(\sqrt{3}-1)$ m

4. ✖ $30(\sqrt{3}+1)$ m

Question Number : 44 Question Id : 750881404 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 1 Wrong : 0

एक 30 मी ऊंचे टावर का भूमि पर दो बिंदुओं से उन्नयन कोण क्रमश: 30° और 45° है। यदि दोनों बिंदु और टावर का आधार एक सीधी रेखा में है तो दोनों बिंदुओं के बीच की दूरी ज्ञात किजिए।

Options :

1. ✖ 30 m

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2. ✗ $30\sqrt{3}\,m$

3. ✓ $30\left(\sqrt{3}-1\right)m$

4. ✗ $30\left(\sqrt{3}+1\right)m$

Question Number : 45 Question Id : 750881405 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 1 Wrong : 0

What are the values of k for which the equation $4x^2 - kx + 9 = 0$ has real roots?

Options :

1. ✗ $-12 \le k \le 12$

2. ✗ $-12 < k < 12$

3. ✗ $12 < k < -12$

4. ✓ $12 \le k \le -12$

Question Number : 45 Question Id : 750881405 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 1 Wrong : 0

K का मान क्या है जिसके लिए समीकरण $4x^2 - kx + 9 = 0$ के वास्तविक मूल हैं?

Options :

1. ✗ $-12 \le k \le 12$

2. ✗ $-12 < k < 12$

3. ✗ $12 < k < -12$

4. ✓ $12 \le k \le -12$

English

Section Id :	75088119
Section Number :	4
Section type :	Online
Mandatory or Optional:	Mandatory
Number of Questions:	15
Number of Questions to be attempted:	15
Section Marks:	15
Display Number Panel:	Yes
Group All Questions:	No

Sub-Section Number:	1
Sub-Section Id:	75088119
Question Shuffling Allowed :	Yes

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Question Number : 46 Question Id : 750881406 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 1 Wrong : 0

Select the word that will fill in the blank correctly.
'If you are focused, you can _____your goals', her coach said.

Options :

1. ✔ achieve
2. ✖ achieves
3. ✖ achieved
4. ✖ achieving

Question Number : 46 Question Id : 750881406 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 1 Wrong : 0

Select the word that will fill in the blank correctly.
'If you are focused, you can _____your goals', her coach said.

Options :

1. ✔ Achieve
2. ✖ Achieves
3. ✖ Achieved
4. ✖ Achieving

Question Number : 47 Question Id : 750881407 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 1 Wrong : 0

Find the error in the following sentence.
I don't like to invests in stock markets as a fall in the market can take you by surprise.

Options :

1. ✖ like to
2. ✔ invests
3. ✖ a fall
4. ✖ surprise

Question Number : 47 Question Id : 750881407 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 1 Wrong : 0

Find the error in the following sentence.
I don't like to invests in stock markets as a fall in the market can take you by surprise.

Options :

1. ✖ like to
2. ✔ invests

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3. ✖ a fall

4. ✖ surprise

Question Number : 48 Question Id : 750881408 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 1 Wrong : 0

Find the error in the following sentence.
I saw a lot of rubble and debris dumped by the hillside and was worried about its effective on the environment.

Options :

1. ✖ I saw a lot of rubble and debris

2. ✖ dumped by the hillside

3. ✔ and was worried about its effective

4. ✖ on the environment

Question Number : 48 Question Id : 750881408 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 1 Wrong : 0

Find the error in the following sentence.
I saw a lot of rubble and debris dumped by the hillside and was worried about its effective on the environment.

Options :

1. ✖ I saw a lot of rubble and debris

2. ✖ dumped by the hillside

3. ✔ and was worried about its effective

4. ✖ on the environment

Question Number : 49 Question Id : 750881409 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 1 Wrong : 0

Select the correct synonym of the underlined word.
The serenity of the lake was immense and urged me to stay an extra day at the resort.

Options :

1. ✔ calmness

2. ✖ scenic beauty

3. ✖ fortitude

4. ✖ creativity

Question Number : 49 Question Id : 750881409 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 1 Wrong : 0

Select the correct synonym of the underlined word.
The serenity of the lake was immense and urged me to stay an extra day at the resort.

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Options :

1. ✔ calmness
2. ✖ scenic beauty
3. ✖ fortitude
4. ✖ creativity

Question Number : 50 Question Id : 750881410 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 1 Wrong : 0

Select the correct synonym of the underlined word.
It was shocking to note how the facts were distorted by the President of the Association when he presented the annual report.

Options :

1. ✖ mistaken
2. ✖ misjudged
3. ✖ misinterpreted
4. ✔ misrepresented

Question Number : 50 Question Id : 750881410 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 1 Wrong : 0

Select the correct synonym of the underlined word.
It was shocking to note how the facts were distorted by the President of the Association when he presented the annual report.

Options :

1. ✖ mistaken
2. ✖ misjudged
3. ✖ misinterpreted
4. ✔ misrepresented

Question Number : 51 Question Id : 750881411 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 1 Wrong : 0

Select the correct antonym of the underlined word.
I tried to forego the chance to show my leadership skills to my teacher so that my friend, who was always helpful, could get a chance to be the class monitor for this month.

Options :

1. ✔ grab
2. ✖ let go
3. ✖ escape
4. ✖ accept

Question Number : 51 Question Id : 750881411 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

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Correct : 1 Wrong : 0

Select the correct antonym of the underlined word.
I tried to forego the chance to show my leadership skills to my teacher so that my friend, who was always helpful, could get a chance to be the class monitor for this month.

Options :

1. ✔ grab
2. ✖ let go
3. ✖ escape
4. ✖ accept

Question Number : 52 Question Id : 750881412 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 1 Wrong : 0

Select the correct antonym of the underlined word.
Those who lead sedentary lives are warned of the consequences by their doctors but they do not pay heed at all.

Options :

1. ✖ lazy
2. ✔ active
3. ✖ sluggish
4. ✖ sloppy

Question Number : 52 Question Id : 750881412 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 1 Wrong : 0

Select the correct antonym of the underlined word.
Those who lead sedentary lives are warned of the consequences by their doctors but they do not pay heed at all.

Options :

1. ✖ lazy
2. ✔ active
3. ✖ sluggish
4. ✖ sloppy

Question Number : 53 Question Id : 750881413 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 1 Wrong : 0

Select the word that is spelt CORRECTLY.

Options :

1. ✖ inchantment
2. ✖ ingagement
3. ✔ installment
4. ✖ ingrediant

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Question Number : 53 Question Id : 750881413 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 1 Wrong : 0

Select the word that is spelt CORRECTLY.

Options :

1. ✖ inchantment
2. ✖ ingagement
3. ✔ installment
4. ✖ ingrediant

Question Number : 54 Question Id : 750881414 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 1 Wrong : 0

Select the alternative that gives the correct meaning of the underlined idiom/phrase.
At the annual conference, it was decided to go back to the drawing board as the product had failed in the market.

Options :

1. ✖ evolve a new plan to stop losses
2. ✔ start all over again
3. ✖ study the impact on the market
4. ✖ improve the way of working

Question Number : 54 Question Id : 750881414 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 1 Wrong : 0

Select the alternative that gives the correct meaning of the underlined idiom/phrase.
At the annual conference, it was decided to go back to the drawing board as the product had failed in the market.

Options :

1. ✖ evolve a new plan to stop losses
2. ✔ start all over again
3. ✖ study the impact on the market
4. ✖ improve the way of working

Question Number : 55 Question Id : 750881415 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 1 Wrong : 0

Select the alternative that gives the correct meaning of the underlined idiom/phrase.
I was taken to task by my boss for my shoddy presentation.

Options :

1. ✖ motivated
2. ✖ assisted
3. ✔ reprimanded
4. ✖ praised

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Question Number : 55 Question Id : 750881415 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 1 Wrong : 0

Select the alternative that gives the correct meaning of the underlined idiom/phrase.
I was <u>taken to task</u> by my boss for my shoddy presentation.

Options :

1. ✖ motivated
2. ✖ assisted
3. ✔ reprimanded
4. ✖ praised

Question Number : 56 Question Id : 750881416 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 1 Wrong : 0

Select the word that will fill in the blank correctly.
"I _____ in life after death. Do you?" the hand-reading expert asked me.

Options :

1. ✖ bely
2. ✔ believe
3. ✖ betray
4. ✖ balance

Question Number : 56 Question Id : 750881416 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 1 Wrong : 0

Fill in the blanks with appropriate words.
"I _____ in life after death. Do you?" the hand-reading expert asked me.

Options :

1. ✖ bely
2. ✔ believe
3. ✖ betray
4. ✖ balance

Question Number : 57 Question Id : 750881417 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 1 Wrong : 0

Fill in the blanks with appropriate words.
Sushmita is allergic_____almonds. Whenever she eats them, she develops a rash on her body.

Options :

1. ✖ with
2. ✔ to
3. ✖ of

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4. ✖ at

Question Number : 57 Question Id : 750881417 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 1 Wrong : 0

Sushmita is allergic _____ almonds. Whenever she eats them, she develops a rash on her body.

Options :

1. ✖ with
2. ✔ to
3. ✖ of
4. ✖ at

Question Number : 58 Question Id : 750881418 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 1 Wrong : 0

Select the correct voice form that will fill in the blank correctly.
After the Rio Olympics girls who are participating in sporting events _____ with a lot of respect.

Options :

1. ✖ have being shown
2. ✖ was treating
3. ✔ are being treated
4. ✖ is treating

Question Number : 58 Question Id : 750881418 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 1 Wrong : 0

Select the correct voice form that will fill in the blank correctly.
After the Rio Olympics girls who are participating in sporting events _____ with a lot of respect.

Options :

1. ✖ have being shown
2. ✖ was treating
3. ✔ are being treated
4. ✖ is treating

Question Number : 59 Question Id : 750881419 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 1 Wrong : 0

Select the correct voice form that will fill in the blank correctly.
Efforts ..... to ensure free quality education to all the children in the country but there are many pitfalls in the system.

Options :

1. ✖ has been making
2. ✖ is being made

3. ✗ is doing

4. ✓ are being made

Question Number : 59 Question Id : 750881419 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 1 Wrong : 0

Select the correct voice form that will fill in the blank correctly.
Efforts _____ to ensure free quality education to all the children in the country but there are many pitfalls in the system.

Options :

1. ✗ has been making

2. ✗ is being made

3. ✗ is doing

4. ✓ are being made

Question Number : 60 Question Id : 750881420 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 1 Wrong : 0

Read the passage and arrange the sentences B to E in the correct order. The sentence marked 'A' comes in the beginning and the sentence marked 'F' comes at the end of the passage.

A. During the Monsoons the sky is overcast with dark clouds.
B. After the strong winds it starts drizzling.
C. Before dark clouds appear in the sky you can see a breeze blowing gently.
D. The breeze soon becomes a strong gust of wind.
E. And soon the drizzle becomes more intense and there is light rain.
F. Light rain is usually followed by heavy rains.

Options :

1. ✗ DCBE

2. ✗ EDBC

3. ✓ CDBE

4. ✗ CEBD

Question Number : 60 Question Id : 750881420 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 1 Wrong : 0

Read the passage and arrange the sentences B to E in the correct order. The sentence marked 'A' comes in the beginning and the sentence marked 'F' comes at the end of the passage.

A. During the Monsoons the sky is overcast with dark clouds.
B. After the strong winds it starts drizzling.
C. Before dark clouds appear in the sky you can see a breeze blowing gently.
D. The breeze soon becomes a strong gust of wind.
E. And soon the drizzle becomes more intense and there is light rain.
F. Light rain is usually followed by heavy rains.

Options :

1. ✗ DCBE

2. ✗ EDBC

3. ✓ CDBE

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4. ✖ CEBD

Physics & Mathematics (Class XII Level)

Section Id :	75088120
Section Number :	5
Section type :	Online
Mandatory or Optional:	Mandatory
Number of Questions:	60
Number of Questions to be attempted:	60
Section Marks:	60
Display Number Panel:	Yes
Group All Questions:	No

Sub-Section Number:	1
Sub-Section Id:	75088120
Question Shuffling Allowed :	Yes

Question Number : 61 Question Id : 750881421 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 1 Wrong : 0

Two charges q_1 and q_2 are placed on the x-axis, with q_1 at $x = a$, and q_2 at $x = 3a$. A third charge Q is placed at the origin. The net force on charge Q is zero if q_2 is equal to:

Options :

1. ✖ $3\,q_1$

2. ✖ $-3\,q_1$

3. ✖ $9\,q_1$

4. ✔ $-9\,q_1$

Question Number : 61 Question Id : 750881421 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 1 Wrong : 0

दो आवेशों q_1 और q_2 को x-अक्ष पर इस प्रकार रखा जाता है कि q_1, x = a और q_2, x = 3a पर होता है। एक तीसरा आवेश Q मूल बिंदु पर रखा जाता है। आवेश Q पर नेट बल शून्य होता है यदि q_2 का मान क्या होगा?

Options :

1. ✖ $3\ q_1$

2. ✖ $-3\ q_1$

3. ✖ $9\ q_1$

4. ✔ $-9\ q_1$

Question Number : 62 Question Id : 750881422 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 1 Wrong : 0

An electric dipole of dipole moment **p** is placed in an electric field **E**. The torque exerted by the field on the dipole is:

Options :

1. ✖ parallel to both the field and the dipole moment
2. ✔ perpendicular to both the field and the dipole moment
3. ✖ parallel to the field and perpendicular to the dipole moment
4. ✖ parallel to dipole moment and perpendicular to the field.

Question Number : 62 Question Id : 750881422 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 1 Wrong : 0

एक विद्युत द्विध्रुव जिसका द्विध्रुव आघूर्ण p है, एक विद्युत क्षेत्र E में रखा जाता है। क्षेत्र द्वारा द्विध्रुव पर लगाया गया बल आघूर्ण क्या होगा?

Options :

1. ✖ विद्युत क्षेत्र और द्विध्रुव आघूर्ण के समानांतर
2. ✔ विद्युत क्षेत्र और द्विध्रुव आघूर्ण के लम्बवत्त
3. ✖ विद्युत क्षेत्र के समानांतर और द्विध्रुव आघूर्ण के लम्बवत्त
4. ✖ द्विध्रुव आघूर्ण के समानांतर और विद्युत क्षेत्र के लम्बवत्त

Question Number : 63 Question Id : 750881423 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 1 Wrong : 0

A 5.0 μC charge is placed at the centre of a Gaussian surface in the form of a cube. The electric flux through any one face of the cube is:

Options :

1. ✖ $5.6 \times 10^5\ N\,m^2/C$
2. ✖ $1.4 \times 10^5\ N\,m^2/C$
3. ✔ $9.4 \times 10^4\ N\,m^2/C$
4. ✖ $1.9 \times 10^4\ N\,m^2/C$

Question Number : 63 Question Id : 750881423 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 1 Wrong : 0

एक 5.0 μC आवेश एक घन के रूप में एक गाउसीय पृष्ठ के केंद्र पर रखा जाता है। घन के किसी भी फलक से गुजरने वाले विद्युत फ्लक्स का परिणाम क्या होगा?

Options :

1. ✖ $5.6 \times 10^5\ N\ m^2/C$
2. ✖ $1.4 \times 10^5\ N\ m^2/C$
3. ✔ $9.4 \times 10^4\ N\ m^2/C$
4. ✖ $1.9 \times 10^4\ N\ m^2/C$

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Question Number : 64 Question Id : 750881424 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 1 Wrong : 0

Two point charges, +3.0 μC and +8.0 μC are separated by 0.30 m. The potential energy of this two charge system, relative to potential energy at infinite separation, is:

Options :

1. ✖ 0.24 J
2. ✖ 0.36 J
3. ✖ 0.48 J
4. ✔ 0.72 J

Question Number : 64 Question Id : 750881424 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 1 Wrong : 0

दो बिंदु आवेश, +3.0 μC और +8.0 μC एक दूसरे से 0.30 मी की दूरी पर स्थित हैं। इस दो आवेश वाले निकाय की स्थितिज ऊर्जा अनंत दूरी पर स्थितिज ऊर्जा के संबंध में कितनी होगी?

Options :

1. ✖ 0.24 J
2. ✖ 0.36 J
3. ✖ 0.48 J
4. ✔ 0.72 J

Question Number : 65 Question Id : 750881425 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 1 Wrong : 0

Two capacitors with capacitances 2.0 μF and 1.0 μF, respectively, are connected in parallel. The system is connected to a 100 V battery. The charge on the 2.0 μF capacitor is:

Options :

1. ✖ 300 μC
2. ✔ 200 μC
3. ✖ 150 μC
4. ✖ 66.7 μC

Question Number : 65 Question Id : 750881425 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 1 Wrong : 0

दो संधारित्र जिनकी धारिता क्रमश: 2.0 μF और 1.0 μF है, समानांतर पार्श्वक्रम में जोड़े गये हैं। निकाय को 100V की बैटरी से जोड़ा गया है। 2.0 μF संधारित्र पर आवेश कितना होगा?

Options :

1. ✖ 300 μC
2. ✔ 200 μC
3. ✖ 150 μC
4. ✖ 66.7 μC

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Question Number : 66 Question Id : 750881426 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 1 Wrong : 0

A parallel plate capacitor with air between the plates, has a capacitance of 2 pF. The plate separation is doubled and a dielectric slab is inserted so that it completely fills the space between the plates. The capacitance of the capacitor becomes 4 pF. The dielectric constant of the slab is:

Options :

1. ✖ 0.5
2. ✖ 2.0
3. ✔ 4.0
4. ✖ 8.0

Question Number : 66 Question Id : 750881426 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 1 Wrong : 0

एक समांतर पट्टिका संधारित्र जिसकी पट्टिकाओं के बीच में हवा है, की धारिता 2pF है। पट्टिकाओं के बीच की दूरी को दोगुना कर दिया जाता है और एक परावैद्युत गुटका बीच में रखा जाता है ताकि यह पट्टिकाओं के बीच की दूरी को पूरी तरह से भर दे। इससे संधारित्र की धारिता 4pF हो जाती है। गुटके का परावैद्युतांक कितना होगा?

Options :

1. ✖ 0.5
2. ✖ 2.0
3. ✔ 4.0
4. ✖ 8.0

Question Number : 67 Question Id : 750881427 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 1 Wrong : 0

The current in an electron beam in a cathode–ray tube is measured to be 80 μA. The number of electrons that hit the screen in 8 s is:

Options :

1. ✖ 2×10^{15}
2. ✖ 3×10^{15}
3. ✔ 4×10^{15}
4. ✖ 6×10^{15}

Question Number : 67 Question Id : 750881427 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 1 Wrong : 0

एक कैथोड-किरण नलिका में एक इलेक्ट्रॉन पुंज में विद्युत धारा 80 μA है। 8 सेकंड में स्क्रीन पर हिट करने वाले इलेक्ट्रॉनों की संख्या कितनी होगी?

Options :

1. ✖ 2×10^{15}
2. ✖ 3×10^{15}

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3. ✔ 4×10^{15}

4. ✖ 6×10^{15}

Question Number : 68 Question Id : 750881428 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 1 Wrong : 0

A wire, 1.2 mm in diameter and 32 cm long, carries a current of 648 mA. The density of free electrons in the wire is $5.90 \times 10^{28}\ m^{-3}$.

The drift velocity of electrons in the wire is:

Options :

1. ✖ 3.2×10^{-5} m/s

2. ✔ 6.1×10^{-5} m/s

3. ✖ 1.8×10^{-4} m/s

4. ✖ 3.6×10^{-4} m/s

Question Number : 68 Question Id : 750881428 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 1 Wrong : 0

एक तार, जिसका व्यास 1.2 मिमी और लंबाई 32 सेमी है, में 648 mA विद्युत धारा बहती है। तार में मुक्त इलेक्ट्रॉनों का घनत्व $5.90 \times 10^{28} m^{-3}$ है। तार में इलेक्ट्रॉनों का अपवाह वेग कितना होगा?

Options :

1. ✖ 3.2×10^{-5} m/s

2. ✔ 6.1×10^{-5} m/s

3. ✖ 1.8×10^{-4} m/s

4. ✖ 3.6×10^{-4} m/s

Question Number : 69 Question Id : 750881429 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 1 Wrong : 0

Three resistors having individual resistance of 4.0 Ω, 6.0 Ω and 12.0 Ω, respectively are connected in parallel. This combination is connected in series with a 2.0 Ω resistor and a 12.0 V battery. The current in the 12 Ω resistor is:

Options :

1. ✔ 0.5 A

2. ✖ 1.0 A

3. ✖ 2.0 A

4. ✖ 3.0 A

Question Number : 69 Question Id : 750881429 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 1 Wrong : 0

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तीन प्रतिरोधक जिनका प्रतिरोध क्रमश: 4.0 Ω, 6.0 Ω और 12.0 Ω है, पार्श्व संयोजित हैं। यह संयोजन श्रेणी में एक 2.0 Ω प्रतिरोध और एक 12.0 V बैटरी से जुड़ा हुआ है। 12 Ω प्रतिरोध में विद्युत धारा कितनी होगी?

Options :

1. ✔ 0.5 A
2. ✖ 1.0 A
3. ✖ 2.0 A
4. ✖ 3.0 A

Question Number : 70 Question Id : 750881430 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 1 Wrong : 0

A battery with internal resistance r is connected in series with an external resistance R. Let U_r and U_R represent the energy dissipated per unit time by the internal resistance r and external resistance R, respectively. If $r=R$, then the ratio U_r/U_R is:

Options :

1. ✖ 1/3
2. ✖ 1/2
3. ✔ 1
4. ✖ 2

Question Number : 70 Question Id : 750881430 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 1 Wrong : 0

एक बैटरी जिसका आतंरिक प्रतिरोध r है, एक बाह्य प्रतिरोध R से श्रेणी में संयोजित है। मान लिजिए U_r और U_R, क्रमश: आतंरिक प्रतिरोध r और बाह्य प्रतिरोध R द्वारा प्रति इकाई समय होने वाले ऊर्जा क्षय दर्शाते हैं। यदि $r=R$, हो तो U_r/U_R का अनुपात कितना होगा?

Options :

1. ✖ 1/3
2. ✖ 1/2
3. ✔ 1
4. ✖ 2

Question Number : 71 Question Id : 750881431 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 1 Wrong : 0

Two parallel conductors, each of 0.6 m length, separated by 6 mm carry equal currents of 4.0 A in opposite directions. The mutual force between the conductors is:

Options :

1. ✖ attractive, 5.3×10^{-4} N
2. ✖ repulsive, 5.3×10^{-4} N
3. ✖ attractive, 3.2×10^{-4} N

4. ✔ repulsive, 3.2×10^{-4} N

Question Number : 71 Question Id : 750881431 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 1 Wrong : 0

दो पार्श्व संवाहक, जिनमें से प्रत्येक की लंबाई 0.6 m है और एक दूसरे से 6 mm की दूरी पर स्थित हैं, में 4.0 A की समान विद्युत धारा विपरित दिशाओं में बहती है। दोनों प्रतिरोधकों के बीच लगने वाला बल कितना होगा?

Options :

1. ✖ आकर्षण, 5.3×10^{-4} N

2. ✖ प्रतिकर्षण, 5.3×10^{-4} N

3. ✖ आकर्षण, 3.2×10^{-4} N

4. ✔ प्रतिकर्षण, 3.2×10^{-4} N

Question Number : 72 Question Id : 750881432 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 1 Wrong : 0

A proton is moving at a speed of 3.8×10^{6} m/s in the positive x- direction. A magnetic field of 0.25×10^{-4} T is in the positive z- direction. The magnitude of the force acting on the proton is:

Options :

1. ✖ 2.5×10^{-18} N

2. ✖ 6.1×10^{-18} N

3. ✔ 1.5×10^{-17} N

4. ✖ 3.1×10^{-17} N

Question Number : 72 Question Id : 750881432 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 1 Wrong : 0

एक प्रोटोन 3.8×10^{6} m/s की चाल से धनात्मक x- दिशा में गतिमान है। 0.25×10^{-4} T का एक चुम्बकीय क्षेत्र धनात्मक z- दिशा में है। प्रोटोन पर लगने वाले बल का परिणाम कितना होगा?

Options :

1. ✖ 2.5×10^{-18} N

2. ✖ 6.1×10^{-18} N

3. ✔ 1.5×10^{-17} N

4. ✖ 3.1×10^{-17} N

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Question Number : 73 Question Id : 750881433 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 1 Wrong : 0

A solenoid with 400 turns is 10.0 cm long and has a radius of 1.0 cm. The current in the solenoid is 5A. The magnetic field at the centre of the solenoid is:

Options :

1. ✔ 2.5×10^{-2} T
2. ✖ 2.5×10^{-3} T
3. ✖ 5.0×10^{-2} T
4. ✖ 5.0×10^{-3} T

Question Number : 73 Question Id : 750881433 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 1 Wrong : 0

एक 400 फेरों वाली परिनालिका की लंबाई 10 सेमी और उसकी त्रिज्या 1.0 सेमी है। परिनालिका में बहने वाली विद्युत धारा 5A है। परिनालिका के केंद्र में उत्पन्न चुम्बकीय क्षेत्र कितना होगा?

Options :

1. ✔ 2.5×10^{-2} T
2. ✖ 2.5×10^{-3} T
3. ✖ 5.0×10^{-2} T
4. ✖ 5.0×10^{-3} T

Question Number : 74 Question Id : 750881434 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 1 Wrong : 0

The current in a coil with a self-inductance of 2.5 mH increases from 0 to 1.4 A in one-tenth of a second. The induced emf in the coil is:

Options :

1. ✔ 35 mV
2. ✖ 350 mV
3. ✖ 70 mV
4. ✖ 0.70 mV

Question Number : 74 Question Id : 750881434 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 1 Wrong : 0

2.5 mH के स्व-प्रेरकत्व वाली एक कुंडली में बहने वाली विद्युत धारा में एक सेकंड के दसवें हिस्से में 0 से 1.4 A की वृद्धि हो जाती है। कुंडली में प्रेरक विद्युत वाहक बल का मान कितना होगा?

Options :

1. ✔ 35 mV
2. ✖ 350 mV

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3. ✖ 70 mV

4. ✖ 0.70 mV

Question Number : 75 Question Id : 750881435 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 1 Wrong : 0

A uniform magnetic field of 1.4 T passes through a wire loop of area 0.5 m^2 . If the direction of the field makes a 30^o angle with the normal to the plane of the loop , the magnetic flux through the loop is:

Options :

1. ✖ 2.8 Wb

2. ✖ 6.1 Wb

3. ✔ 0.61 Wb

4. ✖ 0.30 Wb

Question Number : 75 Question Id : 750881435 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 1 Wrong : 0

0.5 m^2 क्षेत्रफल वाले एक तार से बने लूप से 1.4 T का एक एक समान चुम्बकीय क्षेत्र गुजरता है। यदि क्षेत्र की दिशा लूप के तल के अभिलंबवत 30^o का एक कोण बनाती है, तो लूप में चुंबकीय फ्लक्स कितना होगा?

Options :

1. ✖ 2.8 Wb

2. ✖ 6.1 Wb

3. ✔ 0.61 Wb

4. ✖ 0.30 Wb

Question Number : 76 Question Id : 750881436 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 1 Wrong : 0

An AC voltage is applied to a purely capacitive circuit. The current in the circuit _____.

Options :

1. ✖ lags the voltage by one-fourth of a cycle

2. ✖ lags the voltage by one-half of a cycle

3. ✔ leads the voltage by one-fourth of a cycle

4. ✖ leads the voltage by one-half of a cycle

Question Number : 76 Question Id : 750881436 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 1 Wrong : 0

एक विशुद्ध संधारित्रीय परिपथ में एक एसी (AC) वोल्टता अनुप्रयुक्त की जाती है। परिपथ में विद्युत धारा _____

Options :

1. ✗ वोल्टेज को एक चक्र का एक-चौथाई गिरा देती है।
2. ✗ वोल्टेज को एक चक्र का आधा गिरा देती है।
3. ✓ वोल्टेज को एक चक्र का एक-चौथाई बढ़ा देती है।
4. ✗ वोल्टेज को एक चक्र का आधा बढ़ा देती है।

Question Number : 77 Question Id : 750881437 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 1 Wrong : 0

A sinusoidal voltage is applied to a series circuit containing a resistor of 25 Ω, a capacitor of 0.90 μF and an inductor of 100 mH.
The frequency of the source can be varied. The frequency of the source that will create a resonance condition in the circuit is:

Options :

1. ✗ 147 Hz
2. ✗ 259 Hz
3. ✗ 463 Hz
4. ✓ 531 Hz

Question Number : 77 Question Id : 750881437 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 1 Wrong : 0

एक श्रेणी परिपथ में, जिसमें 25 Ω का एक प्रतिरोध, 0.90 μF का एक संधारित्र और 100 mH का एक प्रेरक शामिल है, एक ज्यावक्रीय वोल्टेज अनुप्रयुक्त की जाती है। स्रोत की आवृत्ति भिन्न हो सकती है। स्रोत की आवृत्ति कितनी है, जो परिपथ में एक अनुनाद की अवस्था का निर्माण करती है?

Options :

1. ✗ 147 Hz
2. ✗ 259 Hz
3. ✗ 463 Hz
4. ✓ 531 Hz

Question Number : 78 Question Id : 750881438 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 1 Wrong : 0

The amplitude of the electric field in a plane electromagnetic wave is 120 V/m. The amplitude of the magnetic field of the wave is:

Options :

1. ✗ 1.2×10^{-7} T
2. ✗ 2.0×10^{7} T
3. ✗ 3.0×10^{8} T
4. ✓ 4.0×10^{-7} T

Question Number : 78 Question Id : 750881438 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 1 Wrong : 0

एक समतल वैद्युतचुंबकीय तरंग में चुंबकीय क्षेत्र का आयाम 120 V/m है। तरंग के चुंबकीय क्षेत्र का आयाम कितना होगा?

Options :

1. ✖ 1.2×10^{-7} T

2. ✖ 2.0×10^{7} T

3. ✖ 3.0×10^{8} T

4. ✔ 4.0×10^{-7} T

Question Number : 79 Question Id : 750881439 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 1 Wrong : 0

An object is placed at a distance greater than twice the focal point distance from a concave mirror. The image formed by the mirror is:

Options :

1. ✖ real, inverted and magnification greater than one.

2. ✔ real, inverted and magnification less than one.

3. ✖ virtual, upright and magnification greater than one.

4. ✖ virtual, upright and magnification less than one.

Question Number : 79 Question Id : 750881439 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 1 Wrong : 0

एक वस्तु को एक अवतल दर्पण से फोकस बिंदु (focal point) की दूरी के दोगुने से अधिक दूरी पर रखा गया है। दर्पण द्वारा बनाया गया प्रतिबिंब कैसा होगा?

Options :

1. ✖ वास्तविक, उल्टा और आवर्धित एक से अधिक होता है।

2. ✔ वास्तविक, उल्टा और आवर्धित एक से कम होता है।

3. ✖ आभासी, सीधा और आवर्धित एक से अधिक होता है।

4. ✖ आभासी, सीधा और आवर्धित एक से कम होता है।

Question Number : 80 Question Id : 750881440 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 1 Wrong : 0

A converging lens with two curved surfaces has a front surface with radius of curvature 10 cm and the back surface with radius of curvature 20 cm. It is made of material with refractive index 1.5. The focal length of the lens is:

Options :

1. ✔ 13.3 cm

2. ✖ −13.3 cm

3. ✖ 4.4 cm

4. ✖ −4.4 cm

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Question Number : 80 Question Id : 750881440 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 1 Wrong : 0

दो वक्रित पृष्ठों वाले एक अभिसारी लेंस के सामने के पृष्ठ की वक्रीय त्रिज्या 10 cm और पिछले पृष्ठ की वक्रीय त्रिज्या 20 cm है। यह एक 1.5 अपवर्तनांक वाले पदार्थ से बनाया गया है। लेंस की फोकस दूरी ज्ञात कीजिए।

Options :

1. ✔ 13.3 cm
2. ✖ −13.3 cm
3. ✖ 4.4 cm
4. ✖ −4.4 cm

Question Number : 81 Question Id : 750881441 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 1 Wrong : 0

The refractive index for a glass is 1.62. The sine of the critical angle for total internal refection at a glass-air interface is:

Options :

1. ✖ 0.40
2. ✔ 0.62
3. ✖ 0.74
4. ✖ 1.00

Question Number : 81 Question Id : 750881441 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 1 Wrong : 0

एक काँच का अपवर्तनांक 1.62 है। एक काँच-वायु अंतरापृष्ठ पर पूर्ण आंतरिक परावर्तन के लिए आपतन कोण की ज्या कितनी होगी?

Options :

1. ✖ 0.40
2. ✔ 0.62
3. ✖ 0.74
4. ✖ 1.00

Question Number : 82 Question Id : 750881442 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 1 Wrong : 0

In a Young's double slit experiment, waves of wavelength λ are incident on the two slits in phase. They travel to a point on the screen to produce a second minimum of the interference pattern. The difference in the distance travelled by the waves is:

Options :

1. ✔ $3\lambda/2$
2. ✖ 2λ
3. ✖ Λ
4. ✖ $\lambda/2$

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Question Number : 82 Question Id : 750881442 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 1 Wrong : 0

एक यंग के द्विझिरी प्रयोग में, λ तरंग दैर्ध्य की तरंगें कला में दो झिरियों पर आपतित होती हैं। वे व्यतिकरण पैटर्न का द्वितीय निम्नतम उत्पन्न करने के लिए स्क्रीन पर एक बिंदु तक चलती हैं। तरंगों द्वारा तय की गयी दूरी में अंतर कितना होगा?

Options :

1. ✔ 3 λ/2
2. ✖ 2λ
3. ✖ Λ
4. ✖ λ/2

Question Number : 83 Question Id : 750881443 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 1 Wrong : 0

Two ideal polaroid sheets are arranged so that the angle between the pass-axis of the two sheets is θ . An unpolarised beam of light of intensity I_0 is incident on one of the polaroids. If the intensity of light emerging from the other polaroid is $I_0 / 4$, the angle θ is:

Options :

1. ✖ 15^0
2. ✖ 30^0
3. ✔ 45^0
4. ✖ 60^0

Question Number : 83 Question Id : 750881443 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 1 Wrong : 0

दो आदर्श पोलेरॉइड शीटें इस प्रकार व्यवस्थित की गयी हैं कि दोनों शीटों के पारित-अक्षों के बीच का कोण θ बना है। I_0 तीव्रता वाले प्रकाश का एक अध्रुवित पुंज इनमें से एक पोलेरॉइड पर आपतित है। यदि अन्य पोलेरॉइड से निर्गमित होने वाले प्रकाश की तीव्रता $I_0 / 4$ है, तो कोण θ कितना होगा?

Options :

1. ✖ 15^0
2. ✖ 30^0
3. ✔ 45^0
4. ✖ 60^0

Question Number : 84 Question Id : 750881444 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 1 Wrong : 0

A photocathode has a work function of 2.4 eV. It is illuminated with monochromatic radiation whose photon energy is 3.9 eV. The maximum kinetic energy of the photoelectrons produced is:

Options :

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1. ✔ 2.4×10^{-19} J
2. ✖ 3.7×10^{-19} J
3. ✖ 4.6×10^{-19} J
4. ✖ 7.2×10^{-19} J

Question Number : 84 Question Id : 750881444 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 1 Wrong : 0

एक फोटोकैथोड़ का कार्य-फलन 2.4 eV है। यह 3.9 eV ऊर्जा वाले फोटॉन एकवर्णी विकिरण से प्रदीप्त किया जाता है। प्रकाशित इलेक्ट्रॉनों की उत्पन्न अधिकतम गतिज ऊर्जा कितनी है?

Options :

1. ✔ 2.4×10^{-19} J
2. ✖ 3.7×10^{-19} J
3. ✖ 4.6×10^{-19} J
4. ✖ 7.2×10^{-19} J

Question Number : 85 Question Id : 750881445 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 1 Wrong : 0

A proton is moving at a speed of 5.0×10^4 m/s. The de Broglie wavelength associated with it is_____.
($m_p = 1.67 \times 10^{-27}$ kg, $h = 6.63 \times 10^{-34}$ J s)

Options :

1. ✖ 0.38×10^{-11} m
2. ✔ 0.79×10^{-11} m
3. ✖ 1.20×10^{-11} m
4. ✖ 1.58×10^{-11} m

Question Number : 85 Question Id : 750881445 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 1 Wrong : 0

एक प्रोटोन 5.0×10^4 m/s की चाल से गतिमान है। इससे जुड़ा हुआ दे ब्रॉग्ली तरंगदैर्ध्य कितना है?
($m_p = 1.67 \times 10^{-27}$ kg, $h = 6.63 \times 10^{-34}$ J s)

Options :

1. ✖ 0.38×10^{-11} m
2. ✔ 0.79×10^{-11} m
3. ✖ 1.20×10^{-11} m
4. ✖ 1.58×10^{-11} m

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Question Number : 86 Question Id : 750881446 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 1 Wrong : 0

The wavelength of the line in the Balmer series of hydrogen spectrum corresponding to the transition from n=4 to n=2 level is:

(R= 1.097 x10^7 m^{-1})

Options :

1. ✖ 630 nm
2. ✖ 524 nm
3. ✔ 486 nm
4. ✖ 380 nm

Question Number : 86 Question Id : 750881446 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 1 Wrong : 0

n=4 से n=2 स्तर पर संक्रमण के अनुसार हाइड्रोजन स्पेक्ट्रम की बामर श्रेणी में लाइन का तरंगदैर्ध्य कितना होगा?

(R= 1.097 x10^7 m^{-1})

Options :

1. ✖ 630 nm
2. ✖ 524 nm
3. ✔ 486 nm
4. ✖ 380 nm

Question Number : 87 Question Id : 750881447 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 1 Wrong : 0

According to Bohr model, the radius of the electron orbit in the n=1 level of the hydrogen atom is 0.053 nm. The radius for the n=3 level is:

Options :

1. ✖ 0.006 nm
2. ✖ 0.018 nm
3. ✖ 0.159 nm
4. ✔ 0.477 nm

Question Number : 87 Question Id : 750881447 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 1 Wrong : 0

बोर (Bohr) के मॉडल के अनुसार n=1 स्तर में हाइड्रोजन परमाणु के इलेक्ट्रॉन की कक्षा की त्रिज्या 0.053 nm होती है। n=3 स्तर के लिए त्रिज्या कितनी होगी?

Options :

1. ✖ 0.006 nm
2. ✖ 0.018 nm
3. ✖ 0.159 nm
4. ✔ 0.477 nm

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Question Number : 88 Question Id : 750881448 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 1 Wrong : 0

The half –life of a radioactive isotope is 5.5 h. If there are initially 48×10^{32} atoms of this isotope, the number of atoms of the isotope remaining after 22 h is:

Options :

1. ✔ 3×10^{32}
2. ✖ 6×10^{32}
3. ✖ 12×10^{32}
4. ✖ 6×10^{4}

Question Number : 88 Question Id : 750881448 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 1 Wrong : 0

एक रेडियोधर्मी समस्थानिक का आधा जीवनकाल 5.5 h है। यदि प्रारंभ में इस समस्थानिक के 48 x 1032 परमाणु हैं तो 22 घंटे बाद बचे समस्थानिक के परमाणुओं की संख्या क्या है?

Options :

1. ✔ 3×10^{32}
2. ✖ 6×10^{32}
3. ✖ 12×10^{32}
4. ✖ 6×10^{4}

Question Number : 89 Question Id : 750881449 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 1 Wrong : 0

A nucleus with atomic number Z and mass number A emits an alpha particle. The atomic number and mass number, respectively, of the daughter nucleus are:

Options :

1. ✖ Z, A-4
2. ✖ Z+2, A+2
3. ✔ Z−2, A−4
4. ✖ Z−2, A−2

Question Number : 89 Question Id : 750881449 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 1 Wrong : 0

परमाणु संख्या Z और द्रव्यमान संख्या A वाला एक नाभिक एक अल्फा कण उत्सर्जित करता है। उत्पादित नाभिक की परमाणु संख्या और द्रव्यमान संख्या क्या है?

Options :

1. ✖ Z, A-4
2. ✖ Z+2, A+2

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3. ✔ Z–2, A–4

4. ✖ Z–2, A–2

Question Number : 90 Question Id : 750881450 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 1 Wrong : 0

An acceptor replacement atom in silicon might have n electrons in its outer shell. The value of n is:

Options :

1. ✖ 6

2. ✖ 5

3. ✖ 4

4. ✔ 3

Question Number : 90 Question Id : 750881450 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 1 Wrong : 0

सिलिकॉन में एक स्वीकार्य प्रतिस्थापन परमाणु के बाहरी शैल में n इलेक्ट्रॉन हो सकते हैं। n का मान क्या है?

Options :

1. ✖ 6

2. ✖ 5

3. ✖ 4

4. ✔ 3

Question Number : 91 Question Id : 750881451 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 1 Wrong : 0

Let L denote the set of all straight lines in a plane. Let a relation R be l R m if l is perpendicular to m $\forall l, m \in L$. Then R is:

Options :

1. ✖ reflexive

2. ✔ symmetric

3. ✖ transitive

4. ✖ equivalence

Question Number : 91 Question Id : 750881451 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 1 Wrong : 0

माना कि L किसी समतल पर सभी लाइनों के सेट को दर्शाता है। माना कि एक संबंध R (Relation R) का मान lRm, यदि m $\forall l, m \in L$ के लम्बवत्त है। तो R का मान क्या होगा?

Options :

1. ✖ स्वतुल्य (reflexive)

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2. ✔ सममित (symmetric)

3. ✖ संक्रामी (transitive)

4. ✖ तुल्यता (equivalence)

Question Number : 92 Question Id : 750881452 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 1 Wrong : 0

The domain of the function $f: R \to R$ defined by $f(x) = \sqrt{x^2 - 3x + 2}$ is:

Options :

1. ✔ $(-\infty, 1] \cup [2, \infty)$

2. ✖ $(-\infty, 1) \cup (2, \infty)$

3. ✖ $(-\infty, -3) \cup (3, \infty)$

4. ✖ $(-\infty, -3] \cup [3, \infty)$

Question Number : 92 Question Id : 750881452 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 1 Wrong : 0

$f(x) = \sqrt{x^2 - 3x + 2}$ द्वारा परिभाषित फंक्शन $f: R \to R$ का डोमेन क्या है?

Options :

1. ✔ $(-\infty, 1] \cup [2, \infty)$

2. ✖ $(-\infty, 1) \cup (2, \infty)$

3. ✖ $(-\infty, -3) \cup (3, \infty)$

4. ✖ $(-\infty, -3] \cup [3, \infty)$

Question Number : 93 Question Id : 750881453 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 1 Wrong : 0

Let R be the set of real numbers and * be the binary operation defined on R as a * b=a + b - ab $\forall a, b \in R$. Then , the identity element with respect to the binary operation * is:

Options :

1. ✖ 1/1-a

2. ✖ 1-a

3. ✖ 1

4. ✔ 0

Question Number : 93 Question Id : 750881453 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 1 Wrong : 0

माना R वास्तविक संख्याओं का सेट है और * बाइनरी ऑपरेशन है जो R में

a * b=a + b - ab $\forall a, b \in R$. द्वारा परिभाषित है, तो बाइनरी ऑपरेशन * के सन्दर्भ में तत्समक अवयव क्या है?

Options :

1. ✖ 1/1-a

2. ✖ 1-a

3. ✖ 1

4. ✔ 0

Question Number : 94 Question Id : 750881454 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 1 Wrong : 0

Let $\theta = \sin^{-1}(\sin(-600^\circ))$, then the value of θ is:

Options :

1. ✔ $\pi/3$

2. ✖ $\pi/2$

3. ✖ $2\pi/3$

4. ✖ $-2\pi/3$

Question Number : 94 Question Id : 750881454 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 1 Wrong : 0

माना $\theta = Sin^{-1}(Sin(-600^\circ))$, तो θ का मान क्या होगा?

Options :

1. ✔ $\pi/3$

2. ✖ $\pi/2$

3. ✖ $2\pi/3$

4. ✖ $-2\pi/3$

Question Number : 95 Question Id : 750881455 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 1 Wrong : 0

If A and B are symmetric matrices of the same order, then $(AB' - BA')$ is:

Options :

1. ✔ Skew symmetric matrix

2. ✖ Symmetric matrix

3. ✖ Null matrix

4. ✖ Identity matrix

Question Number : 95 Question Id : 750881455 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 1 Wrong : 0

यदि A और B एक ही ऑर्डर के सममित मैट्रिक्स (आव्यूह) हैं तो, $(AB' - BA')$ का मान क्या होगा?

Options :

1. ✔ विषम सममित मैट्रिक्स (Skew symmetric matrix)

2. ✖ सममित मैट्रिक्स (Symmetric matrix)

3. ✖ शून्य मैट्रिक्स (Null matrix)

4. ✖ तत्समक मैट्रिक्स (Identity matrix)

Question Number : 96 Question Id : 750881456 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 1 Wrong : 0

If $\begin{bmatrix} 2x+y & 4x \\ 5x-7 & 4x \end{bmatrix} = \begin{bmatrix} 7 & 7y-13 \\ y & x+6 \end{bmatrix}$, then $x+y=$

Options :

1. ✖ 3

2. ✖ 4

3. ✔ 5

4. ✖ 6

Question Number : 96 Question Id : 750881456 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 1 Wrong : 0

यदि $\begin{vmatrix} 2x+y & 4x \\ 5x-7 & 4x \end{vmatrix} = \begin{vmatrix} 7 & 7y-13 \\ y & x+6 \end{vmatrix}$, तो $x+y=$?

Options :

1. ✖ 3

2. ✖ 4

3. ✔ 5

4. ✖ 6

Question Number : 97 Question Id : 750881457 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 1 Wrong : 0

Let $\Delta = \begin{vmatrix} Ax & x^2 & 1 \\ By & y^2 & 1 \\ Cz & z^2 & 1 \end{vmatrix}$ and $\Delta_1 = \begin{vmatrix} A & B & C \\ x & y & z \\ zy & zx & xy \end{vmatrix}$, then

Options :

1. ✖ $\Delta_1 = -\Delta$

2. ✖ $\Delta_1 \neq \Delta$

3. ✔ $\Delta_1 - \Delta = 0$

4. ✖ $\Delta_1 = \Delta = 0$

Question Number : 97 Question Id : 750881457 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 1 Wrong : 0

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माना $\Delta = \begin{vmatrix} Ax & x^2 & 1 \\ By & y^2 & 1 \\ Cz & z^2 & 1 \end{vmatrix}$ और $\Delta_1 = \begin{vmatrix} A & B & C \\ x & y & z \\ zy & zx & xy \end{vmatrix}$

Options :

1. ✖ $\Delta_1 = -\Delta$
2. ✖ $\Delta_1 \neq \Delta$
3. ✔ $\Delta_1 - \Delta = 0$
4. ✖ $\Delta_1 = \Delta = 0$

Question Number : 98 Question Id : 750881458 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 1 Wrong : 0

The function $f(x) = \frac{4-x^2}{4x-x^3}$ is

Options :

1. ✖ Discontinuous at only one point
2. ✖ Discontinuous at exactly two point
3. ✔ Discontinuous at exactly three point
4. ✖ continuous at all point

Question Number : 98 Question Id : 750881458 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 1 Wrong : 0

फंक्शन $f(x) = \frac{4-x^2}{4x-x^3}$, _____ है|

Options :

1. ✖ केवल एक ही बिंदु पर असंतत
2. ✖ ठीक दो बिंदु पर असंतत
3. ✔ ठीक तीन बिंदु पर असंतत
4. ✖ सभी बिंदु पर संतत

Question Number : 99 Question Id : 750881459 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 1 Wrong : 0

$\int \left(\frac{1}{\sin^2 x} + \frac{1}{\cos^2 x}\right) dx = ?$

Options :

1. ✖ $\tan x + \cot x + C$
2. ✔ $\tan x - \cot x + C$
3. ✖ $(\tan x + \cot x)^2 + C$

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4. ✖ $(\tan x - \cot x)^2 + C$

Question Number : 99 Question Id : 750881459 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 1 Wrong : 0

$$\int \left(\frac{1}{sin^2 x} + \frac{1}{cos^2 x}\right) dx = ?$$

Options :

1. ✖ $\tan x + \cot x + C$
2. ✔ $\tan x - \cot x + C$
3. ✖ $(\tan x + \cot x)^2 + C$
4. ✖ $(\tan x - \cot x)^2 + C$

Question Number : 100 Question Id : 750881460 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 1 Wrong : 0

$$\int_{a+c}^{b+c} f(x)dx = ?$$

Options :

1. ✖ $\int_a^b f(x-c)\,dx$
2. ✔ $\int_a^b f(x+c)\,dx$
3. ✖ $\int_a^b f(x)\,dx$
4. ✖ $\int_{a-c}^{b-c} f(x)\,dx$

Question Number : 100 Question Id : 750881460 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 1 Wrong : 0

$$\int_{a+c}^{b+c} f(x)\,dx = ?$$

Options :

1. ✖ $\int_a^b f(x-c)\,dx$
2. ✔ $\int_a^b f(x+c)\,dx$
3. ✖ $\int_a^b f(x)\,dx$
4. ✖ $\int_{a-c}^{b-c} f(x)\,dx$

Question Number : 101 Question Id : 750881461 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 1 Wrong : 0

If $\int_0^1 \frac{e^t}{1+t}dt = a$, then $\int_0^1 \frac{e^t}{(1+t)^2}dt =$

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Options :

1. ✗ $a-1+\frac{e}{2}$

2. ✗ $a+1+\frac{e}{2}$

3. ✗ $a-1-\frac{e}{2}$

4. ✓ $a+1-\frac{e}{2}$

Question Number : 101 Question Id : 750881461 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 1 Wrong : 0

यदि $\int_0^1 \frac{e^t}{1+t}dt = a$, तो $\int_0^1 \frac{e^t}{(1+t)^2}dt = ?$

Options :

1. ✗ $a-1+\frac{e}{2}$

2. ✗ $a+1+\frac{e}{2}$

3. ✗ $a-1-\frac{e}{2}$

4. ✓ $a+1-\frac{e}{2}$

Question Number : 102 Question Id : 750881462 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 1 Wrong : 0

The area of the region bounded by the curve $y = x^2$ and the line $y = 16$ is

Options :

1. ✗ 32/3

2. ✓ 256/3

3. ✗ 64/3

4. ✗ 128/3

Question Number : 102 Question Id : 750881462 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 1 Wrong : 0

वक्र (curve) $y = x^2$ और रेखा (line) $y = 16$ से घिरे क्षेत्र का क्षेत्रफल क्या है?

Options :

1. ✗ 32/3

2. ✓ 256/3

3. ✗ 64/3

4. ✗ 128/3

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Question Number : 103 Question Id : 750881463 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 1 Wrong : 0

The area of the region bounded by the curve $y = f(x)$, x axis and the lines $x = a$ and $y = b$, $(b > a)$ is given by

Options :

1. ✖ $\int_a^b x\,dx$

2. ✖ $\int_a^b y\,dy$

3. ✔ $\int_a^b y\,dx$

4. ✖ $\int_a^b x\,dy$

Question Number : 103 Question Id : 750881463 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 1 Wrong : 0

वक्र $y = f(x)$, X अक्ष तथा लाइन $x = a$ और $y = b$, $(b > a)$ से घिरे क्षेत्र का क्षेत्रफल क्या होगा?

Options :

1. ✖ $\int_a^b x\,dx$

2. ✖ $\int_a^b y\,dy$

3. ✔ $\int_a^b y\,dx$

4. ✖ $\int_a^b x\,dy$

Question Number : 104 Question Id : 750881464 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 1 Wrong : 0

The degree of the differential equation $\frac{d^2y}{dx^2} + 3\left(\frac{dy}{dx}\right)^2 = x^2 \log\left(\frac{d^2y}{dx^2}\right)$

Options :

1. ✖ 1

2. ✖ 2

3. ✖ 3

4. ✔ Not defined

Question Number : 104 Question Id : 750881464 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 1 Wrong : 0

अवकल समीकरण $\frac{d^2y}{dx^2} + 3\left(\frac{dy}{dx}\right)^2 = x^2 \log\left(\frac{d^2y}{dx^2}\right)$ का घात क्या होगा?

Options :

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1. ✖ 1
2. ✖ 2
3. ✖ 3
4. ✔ अनिर्धारित

Question Number : 105 Question Id : 750881465 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 1 Wrong : 0

The solution of the differential equation $2x\frac{dy}{dx} - y = 3$ represents a family of

Options :

1. ✖ hyperbolas
2. ✖ circles
3. ✔ parabolas
4. ✖ ellipses

Question Number : 105 Question Id : 750881465 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 1 Wrong : 0

अवकल समीकरण $2x\frac{dy}{dx} - y = 3$ का हल निम्न में से किस कुल (फैमिली) का प्रतिनिधित्व करता है?

Options :

1. ✖ अतिपरवलय (hyperbolas)
2. ✖ वृत्त (circles)
3. ✔ परवलय (parabolas)
4. ✖ दीर्घवृत्त (ellipses)

Question Number : 106 Question Id : 750881466 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 1 Wrong : 0

The integrating factor of the differential equation $\frac{dy}{dx}(x\log x) + y = 2\log x$

Options :

1. ✔ $\log x$
2. ✖ e^x
3. ✖ $\log(\log x)$
4. ✖ x

Question Number : 106 Question Id : 750881466 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 1 Wrong : 0

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अवकल समीकरण $\frac{dy}{dx}(x\log x)+y=2\log x$ का समाकलन गुणक क्या होगा?

Options :

1. ✔ $\log x$
2. ✖ e^x
3. ✖ $\log(\log x)$
4. ✖ x

Question Number : 107 Question Id : 750881467 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 1 Wrong : 0

P is a point on the line segment joining the points (3, 2,-1) and (6, 2,-2). If x coordinate of P is 5, then its y coordinate is:

Options :

1. ✔ 2
2. ✖ 1
3. ✖ -1
4. ✖ -2

Question Number : 107 Question Id : 750881467 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 1 Wrong : 0

एक रेखा खंड (line segment) पर एक बिंदु P है, जो बिंदुओं (3, 2,-1) और (6, 2,-2) को जोड़ता है। यदि P का x निर्देशांक 5 है तो y निर्देशांक क्या होगा?

Options :

1. ✔ 2
2. ✖ 1
3. ✖ -1
4. ✖ -2

Question Number : 108 Question Id : 750881468 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 1 Wrong : 0

A line makes equal angle with coordinate axis. Direction cosines of this line are

Options :

1. ✖ $\pm(1,1,1)$
2. ✔ $\pm\left(\frac{1}{\sqrt{3}},\frac{1}{\sqrt{3}},\frac{1}{\sqrt{3}}\right)$
3. ✖ $\pm\left(\frac{1}{\sqrt{6}},\frac{1}{\sqrt{6}},\frac{1}{\sqrt{6}}\right)$

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4. ✖ $\pm\left(\frac{1}{3},\frac{1}{3},\frac{1}{3}\right)$

Question Number : 108 Question Id : 750881468 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 1 Wrong : 0

एक रेखा निर्देशक अक्ष पर समान कोण बनाती है। इस रेखा का दिक्कोज्या (दिक्-कोसाइन) क्या हैं?

Options :

1. ✖ $\pm(1,1,1)$
2. ✔ $\pm\left(\frac{1}{\sqrt{3}},\frac{1}{\sqrt{3}},\frac{1}{\sqrt{3}}\right)$
3. ✖ $\pm\left(\frac{1}{\sqrt{6}},\frac{1}{\sqrt{6}},\frac{1}{\sqrt{6}}\right)$
4. ✖ $\pm\left(\frac{1}{3},\frac{1}{3},\frac{1}{3}\right)$

Question Number : 109 Question Id : 750881469 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 1 Wrong : 0

If $\vec{a}$, $\vec{b}$, $\vec{c}$ are three vectors such that $\vec{a}+\vec{b}+\vec{c}=0$ and $|\vec{a}|=2$, $|\vec{b}|=3$, $|\vec{c}|=5$ then the value of $\vec{a}\bullet\vec{b}+\vec{b}\bullet\vec{c}+\vec{c}\bullet\vec{a}$ is:

Options :

1. ✖ 0
2. ✖ 1
3. ✔ -19
4. ✖ 38

Question Number : 109 Question Id : 750881469 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 1 Wrong : 0

यदि तीन वेक्टर $\vec{a}$, $\vec{b}$, $\vec{c}$ इस प्रकार हैं कि $\vec{a}+\vec{b}+\vec{c}=0$ और $|\vec{a}|=2$, $|\vec{b}|=3$, $|\vec{c}|=5$ हो तो $\vec{a}\bullet\vec{b}+\vec{b}\bullet\vec{c}+\vec{c}\bullet\vec{a}$ का मान क्या होगा?

Options :

1. ✖ 0
2. ✖ 1
3. ✔ -19
4. ✖ 38

Question Number : 110 Question Id : 750881470 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 1 Wrong : 0

The number of vectors of unit length perpendicular to the plane of vectors $\vec{a}=2i+j+2k$ and $\vec{b}=j+k$ is:

Options :

1. ✖ One

2. ✔ Two

3. ✖ Three

4. ✖ infinite

Question Number : 110 Question Id : 750881470 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 1 Wrong : 0

वेक्टर $\vec{a} = 2i + j + 2k$ और $\vec{b} = j + k$ पर लम्बवत्त इकाई लंबाई वेक्टरों की संख्या क्या है?

Options :

1. ✖ एक

2. ✔ दो

3. ✖ तीन

4. ✖ अनन्त

Question Number : 111 Question Id : 750881471 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 1 Wrong : 0

The corner points of the feasible bounded region determined by the system of linear constraints are (0, 10), (5, 5), (15, 15) and (0, 20). Let Z = px + qy, where p, q >0. Condition on p and q so that the maximum of Z occurs at both the points (15, 15) and (0, 20) is:

Options :

1. ✖ $p = q$

2. ✖ $p = 2q$

3. ✖ $q = 2p$

4. ✔ $q = 3p$

Question Number : 111 Question Id : 750881471 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 1 Wrong : 0

एक घात प्रतिबंध (लीनियर कंस्ट्रेंट्स) सिस्टम द्वारा निर्धारित सुसंगत क्षेत्र के कार्नर पॉइंट्स (0, 10), (5, 5), (15, 15), (0, 20) हैं। माना Z = px + qy, जहां p, q >0 है। दोनों पॉइंट्स (15, 15) और (0, 20) पर Z के अधिकतम होने के लिए p और q का संबंध क्या होगा?

Options :

1. ✖ $p = q$

2. ✖ $p = 2q$

3. ✖ $q = 2p$

4. ✔ $q = 3p$

Question Number : 112 Question Id : 750881472 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 1 Wrong : 0

Let t = 2x+3y be the objective function for all LPP and the corner points of the bounded feasible region are (6,8), (6,0), (0,2), (0,5).The minimum value of 7 occurs at:

Options :

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1. ✖ (0,2) only

2. ✖ (3,0) only

3. ✖ The midpoint of the line segment joining (0,2) and (0,3)

4. ✔ Any point on the line segment joining (0,2) and (0,3)

Question Number : 112 Question Id : 750881472 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 1 Wrong : 0

माना t = 2 x + 3y कार्य का उद्देश्य सभी LPP और घिरे संभावित क्षेत्र के कॉर्नर बिंदुओं के लिए (6, 8), (6, 0), (0, 2), (0.5) हैं। 7 का न्यूनतम मूल्य _____ पर होता है?

Options :

1. ✖ केवल (0, 2)

2. ✖ केवल (3, 0)

3. ✖ रेखा खंड में शामिल होने वाले मध्य बिंदु (0, 2) और (0,3)

4. ✔ रेखा खंड में शामिल होने पर कोई भी बिंदु (0,2) और (0,3)

Question Number : 113 Question Id : 750881473 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 1 Wrong : 0

Let A and B be two events. If $P(A)=\frac{1}{2}$, $P(B)=\frac{1}{4}$, $P(A\cap B)=\frac{1}{5}$ then $P(A'/B')=$

Options :

1. ✖ 0.8

2. ✖ 0.4

3. ✖ 0.3

4. ✔ 0.6

Question Number : 113 Question Id : 750881473 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 1 Wrong : 0

माना A और B दो घटनाएं (Events) हैं। यदि $P(A)=\frac{1}{2}$, $P(B)=\frac{1}{4}$, $P(A\cap B)=\frac{1}{5}$ तो $P(A'/B')$ =?

Options :

1. ✖ 0.8

2. ✖ 0.5

3. ✖ 0.3

4. ✔ 0.6

Question Number : 114 Question Id : 750881474 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 1 Wrong : 0

The X is a discrete random variable assuming values $x_1, x_2, \ldots\ldots, x_n$ with probabilities $p_1, p_2, \ldots\ldots, p_n$ respectively. then variance of X is given by

Options :

1. ✖ $E(X^2)$
2. ✖ $E(x^2)+E(x)$
3. ✔ $E(X^2)-[E(X)]^2$
4. ✖ $\sqrt{E(X^2)-[E(X)]^2}$

Question Number : 114 Question Id : 750881474 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 1 Wrong : 0

X एक असंतत यादृच्छिक चर है जिसके मान $x_1, x_2, \ldots\ldots, x_n$ तथा प्रायिकता क्रमश: $p_1, p_2, \ldots\ldots, p_n$ हैं तो X का प्रसरण (वैरियंस) क्या होगा?

Options :

1. ✖ $E(x^2)$
2. ✖ $E(x^2)+E(x)$
3. ✔ $E(x^2)-[E(x)]^2$
4. ✖ $\sqrt{E(x^2)-[E(x)]^2}$

Question Number : 115 Question Id : 750881475 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 1 Wrong : 0

The positive integer just greater than $(1+0.0001)^{10000}$ is

Options :

1. ✖ 4
2. ✖ 5
3. ✔ 2
4. ✖ 3

Question Number : 115 Question Id : 750881475 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 1 Wrong : 0

$(1+0.0001)^{10000}$ से अगला बड़ा धनात्मक पूर्णांक क्या होगा?

Options :

1. ✖ 4
2. ✖ 5
3. ✔ 2
4. ✖ 3

Question Number : 116 Question Id : 750881476 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

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Correct : 1 Wrong : 0

If $y=(1+x)(1+x^2).....(1+x^{100})$ then $\frac{dy}{dx}$ at $x=0$ is

Options :

1. ✖ 100
2. ✖ 0
3. ✔ 1
4. ✖ 5050

Question Number : 116 Question Id : 750881476 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 1 Wrong : 0

यदि $y=(1+x)(1+x^2).....(1+x^{100})$ है तो $x=0$ पर $\frac{dy}{dx}$ क्या होगा?

Options :

1. ✖ 100
2. ✖ 0
3. ✔ 1
4. ✖ 5050

Question Number : 117 Question Id : 750881477 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 1 Wrong : 0

Evaluate $\lim_{x\to\infty}\left(\frac{x+1}{x+2}\right)^{2x+1}$

Options :

1. ✖ 0
2. ✖ e
3. ✖ e^{-1}
4. ✔ e^{-2}

Question Number : 117 Question Id : 750881477 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 1 Wrong : 0

$\lim_{x\to\infty}\left(\frac{x+1}{x+2}\right)^{2x+1}$ का मान क्या होगा?

Options :

1. ✖ 0
2. ✖ e
3. ✖ e^{-1}
4. ✔ e^{-2}

Question Number : 118 Question Id : 750881478 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

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Correct : 1 Wrong : 0

Equation of hyperbola whose asymptotes are $3x \pm 5y = 0$ and vertices are $(\pm 5, 0)$ is

Options :

1. ✔ $9x^2 - 25y^2 = 225$
2. ✖ $25x^2 - 9y^2 = 225$
3. ✖ $5x^2 - 3y^2 = 225$
4. ✖ $3x^2 - 5y^2 = 225$

Question Number : 118 Question Id : 750881478 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 1 Wrong : 0

अतिपरवलय जिसके अनन्तस्पर्शी $3x \pm 5y = 0$ और शीर्ष $(\pm 5, 0)$ हैं का समीकरण क्या होगा?

Options :

1. ✔ $9x^2 - 25y^2 = 225$
2. ✖ $25x^2 - 9y^2 = 225$
3. ✖ $5x^2 - 3y^2 = 225$
4. ✖ $3x^2 - 5y^2 = 225$

Question Number : 119 Question Id : 750881479 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 1 Wrong : 0

Minimum value of $27^{\cos x}\, 81^{\sin x}$

Options :

1. ✖ -5
2. ✖ 1/5
3. ✔ 1/243
4. ✖ 1/27

Question Number : 119 Question Id : 750881479 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 1 Wrong : 0

$27^{Cosx} 81^{Sinx}$ का न्यूनतम मान क्या होगा?

Options :

1. ✖ -5
2. ✖ 1/5
3. ✔ 1/243
4. ✖ 1/27

Question Number : 120 Question Id : 750881480 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 1 Wrong : 0

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If $A=\begin{bmatrix}1 & 2\\ 0 & 1\end{bmatrix}$, then $A^n =$

Options :

1. ✖ $\begin{bmatrix}1 & 2^{n-2}\\ 0 & 1\end{bmatrix}$

2. ✖ $\begin{bmatrix}1 & n^2\\ 0 & 1\end{bmatrix}$

3. ✔ $\begin{bmatrix}1 & 2n\\ 0 & 1\end{bmatrix}$

4. ✖ $\begin{bmatrix}1 & n\\ 0 & 1\end{bmatrix}$

Question Number : 120 Question Id : 750881480 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 1 Wrong : 0

यदि $A=\begin{bmatrix}1 & 2\\ 0 & 1\end{bmatrix}$ है तो $A^n = ?$

Options :

1. ✖ $\begin{bmatrix}1 & 2^{n-2}\\ 0 & 1\end{bmatrix}$

2. ✖ $\begin{bmatrix}1 & n^2\\ 0 & 1\end{bmatrix}$

3. ✔ $\begin{bmatrix}1 & 2n\\ 0 & 1\end{bmatrix}$

4. ✖ $\begin{bmatrix}1 & n\\ 0 & 1\end{bmatrix}$

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