



हिन्दुस्तान पेट्रोलियम कॉर्पोरेशन लिमिटेड **Hindustan Petroleum Corporation Limited**

(A Maharatna Company)

Participant ID	
Participant Name	
Test Center Name	Bharat Institute of Technology
Test Date	27/03/2025
Test Time	9:00 AM - 11:30 AM
Subject	Electrical Engineer

Section: English Language

Q.1 Select the correct option that can substitute the highlighted word segment in the given sentence.

She remained calm and composed during the intense debate, carefully choosing her words to counter every argument.

Ans

X 1. barking up the wrong tree

2. thinking on her feet

X 3. letting the cat out of the bag

X 4. crying over spilled milk

Question ID: 4410096621 Option 1 ID: 44100926236 Option 2 ID: 44100926235 Option 3 ID: 44100926238 Option 4 ID: 44100926237

Status: Answered Chosen Option: 2

- Q.2 Sentences of a paragraph are given below in jumbled order. Arrange the sentences in the correct order to form a meaningful and coherent paragraph.
 - A. It is also a different question from 'What antecedent factors-for example, personal ity, IQ, risk profile, or quality of network-make the process go faster or more smoothly?"
 - B. Despite the trends, the study of career transitioning is still in its infancy.
 - C. There is plenty of how-to advice, but we still know precious little about exactly how people change careers.
 - D. 'How' one changes careers is a very different question from 'when' or 'with what frequency within a given population'.

Ans X 1. ABCD

2. DABC

X 3. CADB

X 4. BCDA

Question ID: 4410096575

Option 1 ID: 44100926054 Option 2 ID: 44100926053 Option 3 ID: 44100926052 Option 4 ID: 44100926051

Status: Answered

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Q.3 Select the most appropriate synonym of the given word.

Ans X 1. Vigilant

2. Villain

X 3. Vibrant

X 4. Veneration

Question ID: 4410096645 Option 1 ID: 44100926332 Option 2 ID: 44100926331 Option 3 ID: 44100926333 Option 4 ID: 44100926334

Status: Answered

Chosen Option: 4

Q.4 Select the most appropriate option to fill in the blank.

Despite the heavy rain, the hikers remained ____ and continued their journey up the mountain.

Ans

1. determined

🗶 2. careless

X 3. reluctant

X 4. indifferent

Question ID: 4410095494 Option 1 ID: 44100921770 Option 2 ID: 44100921771 Option 3 ID: 44100921772 Option 4 ID: 44100921773

Status: Answered Chosen Option: 1

Q.5 Select the most appropriate ANTONYM of the given word.

Licentious

Ans X 1. Lubricous

X 2. Prosperous

3. Virtuous

X 4. Lecherous

Question ID: 4410096637

Option 1 ID: 44100926301 Option 2 ID: 44100926300 Option 3 ID: 44100926299

Option 4 ID: 44100926302 Status: Not Answered





Q.6 Select the most appropriate option to fill in the blank.

He always dreamed of becoming ____ university professor, so he worked hard to achieve his goal.

Ans

X 1. the

X 2. some

X 3. an

√ 4. a

Question ID: 4410095491 Option 1 ID: 44100921758

Option 2 ID: 44100921761 Option 3 ID: 44100921759 Option 4 ID: 44100921760

Status: Answered

Chosen Option: 4

Q.7 Select the most appropriate option to fill in the blank.

She completed her work _____, ensuring there were no mistakes.

Ans X 1. carelessly

2. meticulously

X 3. hastily

X 4. recklessly

Question ID: 4410095496

Option 1 ID: 44100921779 Option 2 ID: 44100921778 Option 3 ID: 44100921780

Option 4 ID: 44100921781 Status: Answered

Chosen Option: 2

Q.8 Select the option that can be used as a one-word substitute for the underlined segment in the

Dr. Geller gave a detailed, interesting, and engaging lecture on the Jurassic Age.

Ans X 1. fancy

X 2. flowery

X 3. farcical

4. fascinating

Question ID: 4410096583

Option 1 ID: 44100926085 Option 2 ID: 44100926086

Option 3 ID: 44100926084 Option 4 ID: 44100926083

Status: Answered





Q.9 Select the option that can be used as a one-word substitute for the underlined segment in the given sentence.

I love to travel but to I hate going to Adam's house as the journey is excessively long and exhausting.

Ans X 1. toddler

X 2. tempting

X 3. taxidermy

4. tedious

Question ID: 4410096579 Option 1 ID: 44100926069 Option 2 ID: 44100926068 Option 3 ID: 44100926070 Option 4 ID: 44100926067

Status: Answered

Chosen Option: 2

Q.10 Select the correct spelling of the underlined incorrectly spelt word in the given sentence.

The beneficiery of the grant was a scholar working on indigenous linguistic traditions.

Ans X 1. benefitiary

2. beneficiary

X 3. benificiary

X 4. beneficiery

Question ID: 4410096664 Option 1 ID: 44100926409 Option 2 ID: 44100926407 Option 3 ID: 44100926410 Option 4 ID: 44100926408

Status: Answered

Chosen Option: 2

Q.11 Select the most appropriate option to fill in the blank.

The researchers focused _____ the impact of colonial policies on indigenous languages.

Ans X 1. at

✓ 2. on

X 3. about

X 4. for

Question ID: 4410095562

Option 1 ID: 44100922030 Option 2 ID: 44100922031 Option 3 ID: 44100922033 Option 4 ID: 44100922032

Status: Answered





Q.12 Sentences of a paragraph are given below in jumbled order. Arrange the sentences in the correct order to form a meaningful and coherent paragraph.

A. He made about 14,000 predictions in his lifetime, and by 1970, 12,000 of those predictions had come true and 2,000 were still in the future.

B. Cayce is a very interesting prophet.

c. Out of 12,000 predictions, that's incredible

D. And in all those predictions, he made only one tiny mistake.

Ans X 1. DCBA

X 2. BACD

X 4. ABCD

Question ID: 4410096571
Option 1 ID: 44100926038
Option 2 ID: 44100926037
Option 3 ID: 44100926035
Option 4 ID: 44100926036

Status: Answered







Read the given passage and answer the questions that follow.

Informed consent is fundamental to the ethical and legal doctrines respecting research participants' voluntary participation in clinical research, enshrined in such documents as the 1947 Nuremberg Code; reaffirmed in the 1964 Declaration of Helsinki, revised in 1975, and the 1978 Belmont Report; and codified in the United States in the 1981 Common Rule, revised in 2018 and implemented in 2019. Informed consent generally is understood to represent a process, with the informed consent document having a central role. The characteristics of a well-designed consent form are well known: the document must contain information, some statutorily defined, necessary to allow a participant to make an informed decision; be written at a reading level appropriate for its audience; and be of a length that enables complete and thorough reading. Yet, the content and structure of this document has been the subject of discussion for at least three decades, with a consistent consensus throughout this time that these documents are too difficult to read, too complex, and too long and, as a result, frequently fail to facilitate truly informed consent by study participants.

While much of the blame for the failure to provide sufficiently detailed, readable and brief consent forms has been laid at the feet of sponsors and investigators, the reality is that while it is possible to incorporate two of these three elements into a consent form, it is all but impossible to incorporate all three, i.e., concise, sufficiently detailed yet easily readable, for anything but the simplest of clinical trials. The study by Emmanuel and Boyle reviews the consent forms for the COVID-19 vaccine phase III randomised clinical trials conducted by four major pharmaceutical companies that resulted in US regulatory approvals for three of the four vaccines, in the context of these issues.

The study by Emmanuel and Boyle highlights the deficiencies of the COVID-19 vaccine trial consent forms in these areas, proposes revised consent form language to improve readability, understanding and length, and underscores how the medical community has not responded adequately to the decades-long valid criticisms concerning informed consent forms. The revisions proposed by Emmanuel and Boyle to the relatively straightforward COVID-19 vaccine trials' consent forms yielded a document that was substantially longer than ideal, with an overall higher-grade reading level than optimal, underscoring the fundamental inability to successfully incorporate all three of the desirable qualities for a consent form into a single document

SubQuestion No: 13

Q.13 Which document first enshrined the principle of informed consent in clinical research?

Ans X 1. The 1964 Declaration of Helsinki

2. The 1947 Nuremberg Code

X 3. The 1978 Belmont Report

X 4. The 1981 Common Rule

Question ID: 44100931796

Option 1 ID: 441009126668 Option 2 ID: 441009126669 Option 3 ID: 441009126670

Option 4 ID: 441009126671

Status: Answered





Read the given passage and answer the questions that follow.

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SubQuestion No: 14

Q.14 What is one key criticism of informed consent documents over the past three decades?

Ans X 1. They are too short and lack detail.

X 2. They are only used in the United States.

X 3. They are not required in clinical trials.

✓ 4. They fail to properly inform study participants.

Question ID: 44100931795

Option 1 ID : **44100**9126664 Option 2 ID : **441009126667**

Option 3 ID : **441009126666** Option 4 ID : **441009126665**

Status : **Answered**





Read the given passage and answer the questions that follow.

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SubQuestion No: 15

Q.15 According to the passage, what challenge arises when drafting an ideal informed consent form?

Ans X 1. Ensuring all participants sign the document

🗙 2. Obtaining regulatory approval

X 3. Translating it into multiple languages

✓ 4. Balancing conciseness, detail and readability

Option 1 ID: 441009126663 Option 2 ID: 441009126662 Option 3 ID: 441009126661

Question ID: 44100931794

Option 4 ID : **441009126660**

Status: Answered





Read the given passage and answer the questions that follow.

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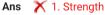
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SubQuestion No: 16

Q.16 Select the most appropriate synonym of given word.

Deficiencies







X 4. Improvements

Question ID: 44100931792

Option 1 ID: 441009126653 Option 2 ID: 441009126654 Option 3 ID: 441009126655

Option 4 ID: 441009126652

Status: Answered





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SubQuestion No: 17

Q.17 Select the most appropriate ANTONYM of the given word.

Concise

Ans

1. Lengthy

X 2. Precise

X 3. Readable

X 4. Clear

Question ID: 44100931793

Option 1 ID: 441009126657 Option 2 ID: 441009126658 Option 3 ID: 441009126659

Option 4 ID: 441009126656

Status: Answered

Chosen Option: 1

Section: Quantitative Aptitude



Simplify $\frac{x^4 + x^2 + 1}{x^2 + x + 1}$.

Ans $\times 1. x^2 + x - 1$

 \times 2. $x^2 - x - 1$

 \times 3. $-x^2 + x + 1$

 \checkmark 4. $x^2 - x + 1$

Question ID: 44100940534 Option 1 ID: 441009161640 Option 2 ID: 441009161642 Option 3 ID: 441009161643

Option 4 ID: 441009161641 Status: Not Answered

Chosen Option: --

Q.2 दो संख्याओं का ल.स.प. (LCM), उनके म.स.प. (HCF) का 392 गुना है। यदि LCM और HCF का योगफल 1965 है और उनमें से एक संख्या 245 है, तो दूसरी संख्या ज्ञात कीजिए।

Ans X 1.35

2. 40

X 3. 45

X 4. 80

Question ID: 44100936883 Option 1 ID: 441009147025 Option 2 ID: 441009147026 Option 3 ID: 441009147027 Option 4 ID: 441009147028

Status: Answered Chosen Option: 2

Q.3 दो साइकिल सवार, X से Y तक 18 km/hr और 24 km/hr की चाल से यात्रा करते हैं। यदि उनमें से एक को गंतव्य तक पहुंचने में दूसरे की तुलना में 15 मिनट कम समय लगता है, तो X और Y के बीच की दूरी (km में) ज्ञात कीजिए।

1.18 Ans

X 2. 40

X 3. 30

X 4. 20

Question ID: 44100939068

Option 1 ID: 441009155806 Option 2 ID: 441009155808 Option 3 ID: 441009155807

Option 4 ID: 441009155805 Status: Answered



Q.4 निम्नलिखित में से कौन-सा, एक द्विचात समीकरण नहीं है?

Ans
$$\times$$
 1. K(3K-7) = (K+2)²

$$\checkmark$$
 2. $(2K-3)(K+1) = (K-3)(2K+6)$

$$\times$$
 3. $(K+2)^2+5 = 5K-17$

$$\times$$
 4. $(K-7)^2+5K = 3K^2-8$

Question ID: 44100930257 Option 1 ID: 441009120392 Option 2 ID: 441009120394 Option 3 ID: 441009120393

Option 4 ID : **441009120395** Status : **Answered**

Chosen Option: 2

Q.5 केन्द्रक G और माध्यिका AM वाले △ABC में, AG = 16 cm, AC = 25 cm और ∠AMC = 90° है। △ABC का क्षेत्रफल (sq.cm में) ज्ञात कीजिए।

Ans X 1.158

X 2. 154

3. 168

X 4. 162

Question ID: 44100937973

Option 1 ID: 441009151469 Option 2 ID: 441009151468 Option 3 ID: 441009151471 Option 4 ID: 441009151470

Status : Answered

Chosen Option : 3

Q.6 दी गई तालिका एक परीक्षा में अलग-अलग अंक प्राप्त करने वाले विद्यार्थियों की संख्या दर्शाती है।

अंक	10	20	30	40	50	60	70
बारंबारता	5	8	12	15	14	10	6

दिए गए आँकड़ा समुच्चय का बहुलक क्या है?

Ano

Ans 🚀 1. 40

X 2. 50

X 3. 14 **X** 4. 15

Question ID: 44100939702

Option 1 ID: 441009158336 Option 2 ID: 441009158339 Option 3 ID: 441009158338 Option 4 ID: 441009158337

Status : Answered





Simplify $\frac{5^{2x} \times 25^{x} \times 125}{625^{x}}$

Ans X 1. 53x

7 1. 520

2. 25✓ 3. 125

X 4. 5 −2x

Question ID: 44100936992 Option 1 ID: 441009147461 Option 2 ID: 441009147462

Option 3 ID : **441009147464**Option 4 ID : **441009147463**

Status : Answered

Chosen Option: 3

Q.8 एक व्यक्ति अपनी बचत को अपने पुत्र, पुत्री और पत्नी के बीच इस तरह बांटता है कि पुत्री के हिस्से और पत्नी के हिस्से का अनुपात, साथ ही पत्नी के हिस्से और पुत्र के हिस्से का अनुपात 5 : 3 है। यदि पुत्री को पुत्र से ₹56,000 अधिक मिलते हैं, तो व्यक्ति की कुल बचत (₹ में) ज्ञात कीजिए।

Ans X 1. ₹1,74,400

X 2. ₹1,72,200

X 3. ₹1,73,600

4. ₹1,71,500

Question ID: 44100934668

Option 1 ID: 441009138073 Option 2 ID: 441009138071 Option 3 ID: 441009138072 Option 4 ID: 441009138070

Status : Answered

Chosen Option: 4

Q.9 एक दुकानदार किसी वस्तु को 20% लाभ पर <mark>बेचता है। यदि उसने इसे</mark> ₹2<mark>00 कम में बेचा</mark> होता, तो <mark>उसे</mark> 2<mark>0%</mark> की हानि होती। वस्तु का क्रय मूल्य (₹ में) ज्ञात कीजिए।

Ans

√ 1. ₹500

X 2. ₹400

X 3. ₹550

X 4. ₹450

Question ID: 44100932426

Option 1 ID : **441009129181**Option 2 ID : **441009129179**Option 3 ID : **441009129182**

Option 4 ID : **441009129180**Status : **Not Answered**





Q.10 भाजक, भागफल का 45 गुना और शेषफल का 9 गुना है। यदि भागफल 25 है, तो भाज्य ज्ञात करें।

Ans X 1. 24,150

X 2. 10,250

3. 28,250

X 4. 28,275

Question ID: 44100936816

Option 1 ID: 441009146758 Option 2 ID: 441009146760 Option 3 ID: 441009146759

Option 4 ID: 441009146757 Status: Answered

Chosen Option: 3

Q.11 यदि $L = \cos A + \sin A$ और $M = \sec A + \csc A$ है, तो $M \times (L^2 - 1)$ का मान ज्ञात कीजिए।

Ans 🧳 1. 2L

X 2. M

X 3. 2M

X 4. L

Question ID: 44100943834

Option 1 ID: 441009174789 Option 2 ID: 441009174788 Option 3 ID: 441009174790 Option 4 ID: 441009174787

Status: Answered Chosen Option: 1

Q.12 एक भिन्न में, अंश का तिगुना, हर के दुगुने से पाँच अधिक है। यदि अंश और हर में 3 जोड़ दिया जाए, तो बनने

वाला नया भिन्न $\frac{3}{4}$ है। मूल भिन्न ज्ञात कीजिए।

Ans

 \times 1. $\frac{17}{23}$ \times 2. $\frac{12}{17}$ \times 3. $\frac{31}{41}$ \checkmark 4. $\frac{21}{29}$

Question ID: 44100928132

Option 1 ID: 441009112061 Option 2 ID: 441009112060

Option 3 ID: 441009112063 Option 4 ID: 441009112062

Status: Answered Chosen Option: 4



Q.13 If $\frac{21.5}{5} + \frac{21}{6} - \frac{13.5}{15} = \frac{x}{3} + \frac{17}{30}$, the value of x is:

Ans 🚀 1. 19

X 2. 20.5

X 3. 19.5

X 4. 20

Question ID: 63068032107 Option 1 ID: 630680127908 Option 2 ID: 630680127911 Option 3 ID: 630680127909 Option 4 ID: 630680127910

Status : Answered

Chosen Option: 1

Q.14 A train goes from one place to another place at a speed of 60 km/hr. At what speed should it return to have an average speed of 48 km/hr?

Ans X 1. 50 km/hr

X 2. 60 km/hr

X 4. 55 km/hr

Question ID: 44100939052 Option 1 ID: 441009155745 Option 2 ID: 441009155742 Option 3 ID: 441009155743

Option 3 ID : **441009155743**Option 4 ID : **441009155744**Status : **Answered**

Chosen Option : 3

Q.15 ₹30,000 की धनराशि को 8 : <mark>7 के</mark> अनुपात में आंशि<mark>क</mark> रूप से 4% <mark>औ</mark>र आंशिक रूप स<mark>े R% वार्षिक साधारण</mark> ब्याज दर पर निवेश किया जा<mark>ता है। य</mark>दि 2 वर्ष के <mark>बाद प्रा</mark>प्त कुल ब्याज ₹3,520 है, तो R का मान ज्ञात कीजिए।

Ans 🗙 1.7

X 2. 6

3. 84. 9

Question ID: 44100931260

Option 1 ID : **441009124527**Option 2 ID : **441009124526**Option 3 ID : **441009124528**

Option 4 ID : **441009124529**Status : **Answered**





Q.16 एक कंपनी, 15 कर्मचारियों का वेतन (हजार, ₹ में) निम्नानुसार दर्ज करती है: 25, 28, 30, 32, 35, 37, 40, 42, 45, 48, 50, 52, 55, 58 और 60 माध्यिका वेतन (₹ में) ज्ञात कीजिए।

Ans X 1. 43,500

2. 42,000

X 3. 42,500

X 4. 43,000

Question ID: **44100939709**Option 1 ID: **441009158369**Option 2 ID: **441009158366**

Option 3 ID : **441009158367** Option 4 ID : **441009158368**

Status : Answered

Chosen Option: 2

Q.17 एक लम्ब वृत्तीय शंकु और एक लम्ब वृत्तीय बेलन की ऊंचाइयों का अनुपात 3 : 4 है, तथा उनके आधारों की त्रिज्याओं का अनुपात 2 : 3 है। यदि बेलन का आयतन 216 cm³ है, तो शंकु का आयतन (cm³ में) ज्ञात कीजिए।

Ans X 1.18

2. 24

X 3. 20

X 4. 22

Question ID: 44100938184

Option 1 ID: 441009152300 Option 2 ID: 441009152303 Option 3 ID: 441009152301 Option 4 ID: 441009152302

Status : **Answered** Chosen Option : **2**

Q.18 यदि η संख्याओं p_1 , p_2 , p_3 p_η का औसत $\frac{1}{p}$ है, तो $\sum_{i=1}^{\eta} (p_i - \overline{p})$ का मान किसके बराबर है?

Ans 🗙 1. η

× 2. η**p**

X 3. **p**

4.0

Question ID: 44100936750

Option 1 ID : **441009146502**Option 2 ID : **441009146503**Option 3 ID : **441009146504**

Option 4 ID : **441009146501**Status : **Not Answered**





Q.19 बेलन A की त्रिज्या और ऊँचाई क्रमशः 5 cm और 6 cm है। बेलन B की त्रिज्या, A की त्रिज्या की दोगुनी है, और इसकी ऊँचाई, A की ऊँचाई की आधी है। A के संपूर्ण पृष्ठीय क्षेत्रफल और B के वक्र पृष्ठीय क्षेत्रफल का अनुपात कितना है?

Ans X 1. 10:11

X 2. 13:14

X 3. 12:13

4. 11 : 6

Question ID: 44100938212 Option 1 ID: 441009152412 Option 2 ID: 441009152415 Option 3 ID: 441009152414 Option 4 ID: 441009152413

Status: Not Answered

Chosen Option: --

Q.20 The sum of the digits of a two-digit number is 15. If the new number formed by reversing the digits is greater than the original number by 27, find the sum of the original number and the number obtained on reversing the digits.

Ans 🖋 1. 165

X 2. 128

X 3. 139

X 4. 157

Question ID: 44100928106 Option 1 ID: 441009111959 Option 2 ID: 441009111956 Option 3 ID: 441009111957 Option 4 ID: 441009111958

Status : **Answered** Chosen Option : **1**

Q.21 दो रेलगाड़ियाँ, जिनमें से प्रत्येक 120 मीटर लंबी है, विपरीत दिशाओं में चल रही हैं और एक दूसरे को 6 सेकंड में पार करती हैं। यदि उनमें से एक रेलगाड़ी 150 मीटर लंबे प्लेटफॉर्म को 18 सेकंड में पार करती है, तो उनकी चाल का अनुपात क्या हो सकता है?

Ans X 1.3:4

X 2.2:3

X 3.4:1

4. 3 : 5

Question ID: 44100939082

Option 1 ID : **441009155861** Option 2 ID : **441009155864** Option 3 ID : **441009155862**

Option 4 ID : **441009155863**Status : **Answered**





Q.22 एक व्यक्ति को धारा की दिशा में 18 km नाव चलाने में 2 hr लगते हैं और धारा के विपरीत दिशा में उतनी ही दूरी तक नाव चलाने में 3 hr लगते हैं। धारा की चाल ज्ञात करें।

Ans X 1. 1.2 km/hr

× 2. 2 km/hr

🗶 4. 3 km/hr

Question ID: 44100937165 Option 1 ID: 441009148188 Option 2 ID: 441009148186 Option 3 ID: 441009148187 Option 4 ID: 441009148185

Status: Answered

Chosen Option: 4

Q.23 The average weight of the first 11 students in a class is 96 kg, and the weight of the 12th student is 33 kg more than the average weight of all 12 students. The weight of the 12th student is:

Ans X 1. 140.18 kg

2. 132 kg

X 3. 96 kg

X 4. 131 kg

Question ID: 44100936765 Option 1 ID: 441009146559 Option 2 ID: 441009146558 Option 3 ID: 441009146560 Option 4 ID: 441009146557

Status: Answered

Chosen Option: 2

Q.24 यदि α और β द्विघात समीकरण
$$ax^2+bx+c=0$$
 के मूल हैं, तो $(\alpha^2+\beta^2+5\alpha\beta)-\frac{1}{\alpha}-\frac{1}{\beta}$ का मान ज्ञात कीजिए।

Ans

$$\times$$
 1. $\frac{b^2a^2 + 3ca + b^2c^2}{a^2c}$

$$\sqrt{2} \cdot \frac{b^2 + 3ca + ba^2}{a^2}$$

$$\times$$
 3. $\frac{b^2c + 3c + a^2}{a^2c}$

$$2. \frac{b^2 + 3ca + ba^2}{a^2}$$
× 3.
$$\frac{b^2c + 3c + a^2}{a^2c}$$
× 4.
$$\frac{b^2c + 3c^2a + ba^2}{a^2c}$$

Question ID: 44100930210 Option 1 ID: 441009120208

Option 2 ID: 441009120205 Option 3 ID: 441009120206 Option 4 ID: 441009120207

Status: Not Answered





Q.25 खाद्य तेल की कीमत में पहले 20% की कमी की जाती है। फिर घटी हुई कीमत में 20% की वृद्धि की जाती है। यदि नई कीमत, मूल कीमत से ₹20 कम है, तो मूल कीमत ज्ञात कीजिए।

Ans X 1. ₹350

⊘ 2. ₹500

X 3. ₹200

X 4. ₹400

Question ID: 44100937077

Option 1 ID: 441009147804

Option 2 ID: 441009147802 Option 3 ID: 441009147803

Option 4 ID: 441009147801

Status: Answered

Chosen Option: 2

Q.26 राम और मोहन किसी कार्य को क्रमशः 8 दिन और 12 दिन में पूरा कर सकते हैं। वे साथ मिलकर काम करना शुरू करते हैं, लेकिन 2 दिन बाद राम काम करना छोड़ देता है। शेष कार्य पूरा करने में मोहन को कितना समय लगेगा?

Ans X 1. 5 दिन

🗶 2. 6 दिन

🥒 3. 7 दिन

🗶 4. 8 दिन

Question ID: 44100937119

Option 1 ID: 441009147965 Option 2 ID: 441009147966

Option 3 ID: 441009147967

Option 4 ID: 441009147968

Status: Answered

Chosen Option: 3

Q.27 केंद्र O के एक वृत्त में, एक चाप <mark>AB</mark> केंद्र पर 60° का <mark>को</mark>ण आंतरित <mark>कर</mark>ती है। परिधि के <mark>एक बिंदु C पर उसी चाप</mark> द्वारा आंतरित किए गए कोण की माप कितनी है?

Ans X 1. 120°

X 2. 60°

X 3.15° √ 4. 30°

Question ID: 44100938857

Option 1 ID: 441009154971

Option 2 ID: 441009154972

Option 3 ID: 441009154974

Option 4 ID: 441009154973

Status: Answered





Q.28 एक व्यापारी ₹1,120 के अंकित मृल्य पर 10% की छूट देने के बाद 12% का लाभ प्राप्त करना चाहता है। यदि कोई छूट नहीं दी जाती, तो लाभ प्रतिशत कितना होता?

$$\times 1.24 \frac{5}{9}\%$$

√ 2.24
$$\frac{4}{9}$$
 %

$$\checkmark$$
 2.24 $\frac{4}{9}$ %
× 3.25 $\frac{5}{9}$ %

× 4.25
$$\frac{4}{9}$$
%

Question ID: 44100932713

Option 1 ID: 441009130075 Option 2 ID: 441009130074 Option 3 ID: 441009130076 Option 4 ID: 441009130077

Status: Answered

Chosen Option : 2

Q.29 तीन नल, P, Q और S, एक खाली टंकी को 15 मिनट में भर सकते हैं। न<mark>ल P अकेले इसे</mark> 30 मिनट में भर सकता है और नल Q अकेले इसे 45 मिनट में भर सकता है। नल S अकेले टंकी <mark>को भर</mark>ने में <mark>कितना</mark> समय लेगा?

Ans X 1. 60 मिनट

🥒 2. 90 मिनट

🗙 3. 45 मिनट

🗶 4. 30 मिनट

Question ID: 44100939027 Option 1 ID: 441009155646 Option 2 ID: 441009155648 Option 3 ID: 441009155649 Option 4 ID: 441009155647 Status: Answered





Q.30 किसी निश्चित धनराशि को 10% वार्षिक चक्रवृद्धि ब्याज दर पर एक वर्ष के लिए उधार दिया जाता है। यदि ब्याज, वार्षिक की जगह अर्धवार्षिक रूप से संयोजित किया जाए, तो ₹240 अधिक प्राप्त होंगे। उधार दिया गया मूलधन ज्ञात कीजिए।

Ans

√ 1. ₹96,000

× 2. ₹88,000

X 3. ₹92,000

X 4. ₹84,000

Question ID: 44100931268

Option 1 ID: 441009124561 Option 2 ID: 441009124559 Option 3 ID: 441009124560 Option 4 ID: 441009124558

Status: Not Answered

Chosen Option: --

Q.31 X की आय का 10% = Y की आय का 15% = Z की आय का 25% है। यदि कुल आय ₹18,600 है, तो Y की आय कितनी है?

√ 1. ₹6,000

X 2. ₹9,000

X 3. ₹36,000

X 4. ₹6,200

Question ID: 44100937069 Option 1 ID: 441009147769 Option 2 ID: 441009147770

Option 3 ID: 441009147771 Option 4 ID: 441009147772

Status: Answered Chosen Option: 1

Q.32 एक दुकानदार ₹1,800 अंकि<mark>त मूल्य</mark> वाला योनेक्स <mark>बैडमिंटन रैकेट 18</mark>% की छूट पर बेचता है और प्रत्येक रैकेट के साथ ₹288 मूल्य वाला एक <mark>शटल कॉक मुफ़्त देता है। यदि दुकानदार को इस लेन-देन में 20% का लाभ</mark> हो<mark>ता है</mark>, तो प्रत्येक रैकेट का क्रय मूल्य ज्ञात कीजिए।

Ans X 1. ₹1,200

X 2. ₹820

X 3. ₹1,000 **4**. ₹990

Question ID: 44100937138

Option 1 ID: 441009148046 Option 2 ID: 441009148048

Option 3 ID: 441009148045 Option 4 ID: 441009148047

Status: Answered





Q.33 28 kg, 42 kg और 70 kg की धारिता वाले तीन डिब्बे, तीन प्रकार के चावलों क्रमशः A प्रकार, B प्रकार और C प्रकार से पूरी तरह भरे हुए हैं। एकसमान मिश्रण बनाने के लिए तीनों प्रकार के चावलों को अच्छी तरह से मिलाया जाता है। फिर इस मिश्रण को तीनों डिब्बों में वापस भरा जाता है। पुनर्भरण के बाद, तीसरे डिब्बे में C प्रकार का कितने kg चावल मौजूद होगा?

X 2. 38

X 3. 32

X 4. 36

Question ID: 44100931249

Option 1 ID: 441009124483
Option 2 ID: 441009124485
Option 3 ID: 441009124482
Option 4 ID: 441009124484

Status: Answered

Chosen Option: 2

Q.34 यदि $\mathbf{a} \neq \mathbf{b}, \mathbf{c} > 0$ है और $(\mathbf{a} + \mathbf{c}) : (\mathbf{b} + \mathbf{c})$ का वर्गानुपात $\mathbf{a} : \mathbf{b}$ है, तो \mathbf{a} और \mathbf{b} का माध्यानुपाती ज्ञात कीजिए।

Ans \times 1. \sqrt{c}

 \times 2. c²

√ 3. c

 \times 4. $\frac{1}{c}$

Question ID: 44100934557

Option 1 ID: 441009137632 Option 2 ID: 441009137631 Option 3 ID: 441009137630 Option 4 ID: 441009137633

Status: Not Answered

Chosen Option: --

Section: Intellectual Potential Test

Q.1 If 'A' stands for '÷', 'B' stands for '×', 'C' stands for '+' and 'D' stands for '-', then what will come in place of the question mark (?) in the following equation?

27 A 3 D 15 C 11 B 2 = ?

Ans X 1.12

2. 16

X 3. 9

X 4.3

Question ID: 4410091155

Option 1 ID: **4410094615**Option 2 ID: **4410094616**Option 3 ID: **4410094614**

Option 4 ID : 4410094613 Status : Answered





Q.2 Ketan starts from Point Y and drives 24 km towards the north. He then turns left and drives 23 km, takes a left and drives 91 km. He then takes a left turn and drives 41 km. He takes a left turn, drives 67 km, turns right and drives 29 km to stop at Point Z. How far (shortest distance) and towards which direction should he drive in order to reach Point Y again? (All turns are 90 degrees turns only, unless specified.)

Ans X 1. 51 km towards the east

X 2. 49 km towards the west

3. 47 km towards the west

X 4. 48 km towards the east

Question ID: 441009371 Option 1 ID: 4410091473 Option 2 ID: 4410091476 Option 3 ID: 4410091475 Option 4 ID: 4410091474

Status: Answered

Chosen Option: 3

Q.3 Read the given statements and conclusions carefully. Assuming that the information given in the statements is true, even if it appears to be at variance with commonly known facts, decide which of the given conclusion(s) logically follow(s) from the statements.

Statements:

All actors are dancers.

All dancers are singers.

Conclusions:

(I) All actors are singers.

(II) Some singers are dancers.

Ans X 1. Only conclusion (II) follows.

✓ 2. Both conclusions (I) and (II) follow.

X 3. Only conclusion (I) follows.

X 4. Neither conclusion (I) nor (II) follows.

Question ID: 44100983

Option 1 ID: 441009324 Option 2 ID: 441009321 Option 3 ID: 441009323

Option 4 ID: 441009322

Status: Answered



Q.4 यह प्रश्न दिए गए शब्दों पर आधारित है।

ELF PUT HOP JAB

प्रत्येक शब्द में, प्रत्येक स्वर को अंग्रेजी वर्णमाला क्रम में उसके ठीक बाद वाले अक्षर को छोड़कर उसके अगले अक्षर से बदल दिया जाता है और प्रत्येक व्यंजन को अंग्रेजी वर्णमाला क्रम में उसके ठीक पहले वाले अक्षर से बदल दिया जाता है। इस प्रकार बने कितने अक्षर-समूहों में कोई स्वर नहीं होगा?

Ans X 1. एक

🗶 2. दो

🗙 3. तीन

🥒 4. एक भी नहीं

Question ID: 441009525 Option 1 ID: 4410092087

Option 2 ID: 4410092088 Option 3 ID: 4410092089 Option 4 ID: 4410092086

Status: Answered

Chosen Option: 4

Q.5 Based on the English alphabetical order, three of the following four letter-cluster pairs are alike in a certain way and thus form a group. Which letter-cluster pair DOES NOT belong to that group?

(Note: The odd one out is not based on the number of consonants/vowels or their position in the letter-cluster.)

X 1. MP-QA

2. SB-GY

X 3. VY-ZJ

4. YB-CM

Question ID: 441009549

Option 1 ID: 4410092184

Option 2 ID: 4410092183

Option 3 ID: 4410092182

Option 4 ID: 4410092185

Status: Answered

Chosen Option: 2

Q.6 Which of the following letter-clusters should replace # and % so that the pattern and relationship followed between the letter-cluster pair on the left side of :: is the same as that on the right side of ::?

#: HLG:: OSN: %

Ans X 1. # = LPK; % = KOI

X 2. # = LPK; % = KPJ

3. # = LPM; % = KOJ

✓ 4. # = LPK; % = KOJ

Question ID: 44100967

Option 1 ID: 441009258 Option 2 ID: 441009260

Option 3 ID: 441009259

Option 4 ID: 441009257

Status: Answered





Q.7 A, B, C, D, M, N, और O एक गोल मेज के परितः उसके केंद्र की ओर अभिमुख होकर बैठे हैं।
O के दाईं ओर से गिनने पर, O और M के बीच केवल एक व्यक्ति बैठा है। M और B के बीच केवल एक व्यक्ति बैठा है। O और D के बीच केवल एक व्यक्ति बैठा है। C और B के बीच केवल दो व्यक्ति बैठे हैं। A और D के बीच केवल एक व्यक्ति बैठा है।

N के दाईं ओर तीसरे स्थान पर कौन बैठा है?

Ans X 1. A

X 2. D

X 3. C

√ 4. M

Question ID: 441009352

Option 1 ID: 4410091397 Option 2 ID: 4410091399 Option 3 ID: 4410091398

Option 4 ID : 4410091400 Status : Answered

Chosen Option: 4

Q.8 सात व्यक्ति L, M, N, O, R, S और T, एक गोल मेज के परितः उसके केंद्र की ओर अभिमुख होकर बैठे हैं। L के दाईं ओर से गिनने पर, N और L के बीच केवल तीन व्यक्ति बैठे हैं। O, L के दाईं ओर दूसरे स्थान पर बैठा है। R और N दोनों का निकटतम पड़ोसी T है। S, L का निकटतम पड़ोसी नहीं है।

M के निकटतम पड़ोसी निम्नलिखित में से कौन हैं?

Ans X 1. L और R

🗶 2. N और T

🥒 3. 0 और L

\chi 4. S और N

Question ID: 441009275

Option 1 ID: 4410091089 Option 2 ID: 4410091091 Option 3 ID: 4410091090

Option 4 ID : 4410091092

Status : Answered

Chosen Option: 3

Q.9 सात व्यक्ति A, C, G, K, M, S और Y, एक गोल मेज के परितः उसके केंद्र की ओर अभिमुख होकर बैठे हैं, लेकिन जरूरी नहीं कि वे इसी क्रम में बैठे हों। A, K के ठीक दाएं पड़ोस में बैठा है। A और C के बीच केवल दो व्यक्ति बैठे हैं। G, C के बाएं दूसरे स्थान पर बैठा है। M, S के ठीक दाएं पड़ोस में बैठा है। Y के बाएं तीसरे स्थान पर कौन बैठा है?

Ans X 1. C

✓ 2. K

X 3. A

X 4. M

Question ID: 441009870

Option 1 ID: 4410093468 Option 2 ID: 4410093470 Option 3 ID: 4410093467 Option 4 ID: 4410093469

Status : Answered





Q.10 निम्नलिखित अक्षर और प्रतीक श्रृंखला का संदर्भ लें तथा नीचे दिए गए प्रश्न का उत्तर दें। गिनती केवल बाएं से दाएं की जानी है।

(बाएं) H Q E K \ / \ S + U * / K E W P ^ D N (दाएं)

ऐसे कितने अक्षर हैं जिनमें से प्रत्येक के ठीक पहले एक अक्षर और ठीक बाद एक प्रतीक है?

Ans 💢 1. तीन

🗶 2. चार

🥒 3. दो

🗙 4. एक

Question ID: 441009521

Option 1 ID: 4410092072

Option 2 ID: 4410092073

Option 3 ID: 4410092071

Option 4 ID: 4410092070 Status: Answered

Chosen Option: 3

Q.11 यह प्रश्न नीचे दी गई पाँच, तीन-अंकीय संख्याओं पर आधारित है।

(बाएं) 387 857 235 496 217 (दाएं)

(उदाहरण: 697 - पहला अंक = 6, दूसरा अंक = 9 और तीसरा अंक = 7)

(नोट: सभी संक्रियाएँ बाएं से दाएं की जानी है।)

यदि सबसे बड़ी संख्या के दूसरे अंक को सबसे छोटी संख्या के तीसरे अं<mark>क में जोड़ा जाए,</mark> तो परिणाम क्या प्राप्त होगा?

Ans X 1.9

X 2. 10

X 3. 11

4. 12

Question ID: 441009526

Option 1 ID: 4410092090

Option 2 ID: 4410092091

Option 3 ID: 4410092092

Option 4 ID: 4410092093

Status: Answered





Q.12 Read the given statements and conclusions carefully. Assuming that the information given in the statements is true, even if it appears to be at variance with commonly known facts, decide which of the given conclusion(s) logically follow(s) from the statements.

Statements:

Some rings are tones.

No tones are sounds.

Conclusions:

(I): All rings are sounds.

(II): All tones are rings.

Ans X 1. Both conclusions I and II follow.

2. Neither conclusion I nor II follows.

X 3. Only conclusion I follows.

X 4. Only conclusion II follows.

Question ID: 441009862

Option 1 ID : **4410093438** Option 2 ID : **4410093437**

Option 3 ID: **4410093435** Option 4 ID: **4410093436**

Status: Answered

Chosen Option: 2

Q.13 निम्नलिखित अक्षर और प्रतीक श्रृंखला का संदर्भ लें तथा नीचे दिए गए प्रश्न<mark> का उत्तर</mark> दें। गिनती केवल बाएं से दाएं की जानी है।

(बाएं) U M B & > H @ L = & N % K A \pm U E * D F C < Q (दाएं)

ऐसे कितने प्रतीक हैं जिनमें से प्रत्येक के ठीक पहले एक प्रतीक औ<mark>र ठीक बा</mark>द एक अ<mark>क्षर है?</mark>

Ans 💢 1. एक

🥒 2. दो

🗙 3. चार

🗙 4. तीन

Question ID: 441009381

Option 1 ID: 4410091516

Option 2 ID: 4410091515

Option 3 ID : **4410091514**Option 4 ID : **4410091513**

Status : **Answered**





Q.14 If 'A' stands for '÷', 'B' stands for '×', 'C' stands for '+' and 'D' stands for '-', then what will come in place of the question mark (?) in the following equation?

23 C 56 A 7 D 9 B 2 = ?

Ans X 1.9

X 2.18

3. 13

X 4.4

Question ID: 4410091154

Option 1 ID: 4410094610

Option 2 ID: 4410094612

Option 3 ID: 4410094611 Option 4 ID: 4410094609

Status: Answered

Chosen Option: 3

Q.15 निम्नलिखित संख्या-युग्मों में, प्रथम संख्या पर कुछ गणितीय संक्रियाएँ लागू करके दूसरी संख्या प्राप्त की जाती है। उस विकल्प का चयन कीजिए जिसमें संख्याएँ उसी प्रकार संबंधित हैं जिस प्रकार निम्नलिखित संख्या-युग्मों की संख्याएँ संबंधित हैं।

(नोट: संख्याओं को उनके घटक अंकों में तोड़े बिना, पूर्ण संख्याओं पर संक्रियाएँ की जानी चाहिए। उदाहरण के लिए 13 को लीजिए - 13 पर संक्रियाएँ जैसे कि 13 में जोड़ना / घटाना / गृणा करना आदि 13 पर ही किया जा सकता है। 13 को 1 और 3 में तोड़ना तथा फिर 1 और 3 पर गणितीय संक्रियाएँ करने की अनुमति नहीं है।) 50, 74

66, 90

Ans

1. 42, 66

X 2. 74, 108

X 3. 80, 94

X 4. 45, 60

Question ID: 4410091191 Option 1 ID: 4410094759 Option 2 ID: 4410094758 Option 3 ID: 4410094757 Option 4 ID: 4410094760 Status: Answered

Chosen Option: 1

Q.16 What should come in place of the question mark (?) in the given series?

10 27 45 64 84 ?

Ans X 1.111

X 2. 116

3. 105

X 4. 101

Question ID: 4410091319

Option 1 ID: 4410095271 Option 2 ID: 4410095272 Option 3 ID: 4410095270

Option 4 ID: 4410095269 Status: Answered





Q.17 Seven boxes A, C, E, G, I, K, and M are kept one over the other but not necessarily in the same order. Exactly five boxes are kept between E and C. G is kept immediately above C. Only one box is kept between E and M. K is kept immediately above A. How many boxes are kept below I?

Ans

X 1. None

X 2. Three

3. Five

X 4. Six

Question ID: 441009277 Option 1 ID: 4410091097 Option 2 ID: 4410091098 Option 3 ID: 4410091099 Option 4 ID: 4410091100

Status : **Answered** Chosen Option : **2**

onosch option.

Q.18 Select the pair that follows the same pattern as that followed by the two pairs given below. Both pairs follow the same pattern.

HPK: NTQ DRV: JVB

Ans X 1. HOC: NUI

X 2. ARL: GXP

X 4. KUJ: 0ZN

Question ID: 441009858

Option 1 ID: **4410093419** Option 2 ID: **4410093422** Option 3 ID: **4410093420**

Option 4 ID : 4410093421

Status : Answered

Chosen Option: 3

Q.19 Select the triad that follows the same pattern as that followed by the two triads given below.

Both triads follow the same pattern.

NP - MR - LT

FH - EJ - DL

X 2. FM - EL - DK

X 3. LN - MO -NP

X 4. 0Q - MS - KT

Question ID: 441009300

Option 1 ID : **4410091190**Option 2 ID : **4410091191**Option 3 ID : **4410091189**

Option 4 ID : 4410091192 Status : Answered





Q.20 H, I, J, K, M, N और O में से प्रत्येक की परीक्षा सोमवार से शुरू होकर रविवार को समाप्त होने वाले उसी सप्ताह के अलग-अलग दिन है। H से पहले किसी की भी परीक्षा नहीं है। H और M के बीच केवल तीन व्यक्तियों की परीक्षा है। M और l के बीच केवल एक व्यक्ति की परीक्षा है। N की परीक्षा बुधवार को है। O की परीक्षा K की परीक्षा के बाद के किसी दिन, लेकिन J की परीक्षा से पहले किसी दिन है। O की परीक्षा सप्ताह के किस दिन है?

🛷 1. गुरुवार

🗶 2. सोमवार

🗙 ३. मंगलवार

🗙 ४. शनिवार

Question ID: 441009363

Option 1 ID: 4410091443 Option 2 ID: 4410091441 Option 3 ID: 4410091442 Option 4 ID: 4410091444

Status: Answered

Chosen Option: 1

Q.21 What should come in place of the question mark (?) in the given series based on the English alphabetical order?

WKG UHC SEY QBU OYQ?

Ans ✓ 1. MVM

X 2. LWN

X 3. NTM

X 4. NUL

Question ID: 441009360

Option 1 ID: 4410091430 Option 2 ID: 4410091431 Option 3 ID: 4410091432 Option 4 ID: 4410091429

Status: Answered

Chosen Option: 1

Q.22 What should come in place of the question mark (?) in the given series?

9 18 36 63 99 ?

Ans X 1. 126

2. 144

X 3. 132

X 4. 138

Question ID: 4410091172

Option 1 ID: 4410094681 Option 2 ID: 4410094684 Option 3 ID: 4410094682 Option 4 ID: 4410094683

Status: Answered





Q.23 In a certain code language,

'A + B' means 'A is the son of B',

'A - B' means 'A is the brother of B',

'A × B' means 'A is the wife of B' and 'A ÷ B' means 'A is the father of B'.

How is D related to J if 'D x F + G - H \div J'?

Ans X 1. Mother's sister's son's wife

2. Father's brother's son's wife

X 3. Mother's brother's son's wife

X 4. Father's sister's son's wife

Question ID: 44100973 Option 1 ID: 441009284 Option 2 ID: 441009281

Option 3 ID: 441009283 Option 4 ID: 441009282

Status: Answered

Chosen Option: 2

Q.24 वह समुच्चय चुनिए जिसमें संख्याएँ उसी प्रकार संबंधित हैं जिस प्रकार निम्नलिखित समुच्चयों की संख्याएँ संबंधित हैं।

(नोट: संख्याओं को उनके घटक अंकों में तोड़े बिना, गणितीय संक्रियाएँ केव<mark>ल पूर्ण</mark> संख्याओं पर ही करनी हैं। उदाहरण के लिए 13 लीजिए, 13 पर जोड़ना, घटाना या गुणा करना जैसे सं<mark>क्रियाएँ</mark> की जा सकती हैं, लेकिन 13 को 1 और 3 में तोड़ना और फिर 1 और 3 पर गणितीय संक्रिया करने की अनुमित नहीं है।)

(106, 45, 61) (110, 55, 55)

Ans

1. (85, 30, 55)

X 2. (62, 20, 32)

X 3. (22, 7, 29)

X 4. (48, 28, 30)

Question ID: 4410091194

Option 1 ID: 4410094770 Option 2 ID: 4410094772

Option 3 ID: 4410094771 Option 4 ID: 4410094769

Status: Answered





Q.25 सात बॉक्स A, B, C, D, E, F और G एक के ऊपर एक रखे गए हैं, लेकिन जरूरी नहीं कि इसी क्रम में रखे गए हों। B को D के ठीक ऊपर रखा गया है। F को C के ठीक ऊपर रखा गया है। केवल E को A के ऊपर रखा गया है। B के ऊपर केवल दो बॉक्स रखे गए हैं। F को नीचे से तीसरे स्थान पर नहीं रखा गया है। G के नीचे कितने बॉक्स रखे गए हैं?

Ans X 1. चार

🗶 2. तीन

🗙 3. एक

🥒 4. दो

Question ID: 44100961

Option 1 ID: 441009236 Option 2 ID: 441009235 Option 3 ID: 441009233 Option 4 ID: 441009234

Status: Answered

Chosen Option: 4

Q.26 In a certain code language, 'respect your parents' is coded as 'ab cd ef' and 'parents know everything' is coded as 'ef qf lk'. How is 'parents' coded in the given language?

Ans

✓ 1. ef

X 2. cd

X 3. lk

X 4. ab

Question ID: 44100938943

Option 1 ID: 441009155319 Option 2 ID: 441009155320 Option 3 ID: 441009155321 Option 4 ID: 441009155322

Status: Answered

Chosen Option: 1

Q.27 Select the set in which the numbers are related in the same way as are the numbers of the

(NOTE: Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits. E.g. 13 - Operations on 13 such as adding / subtracting /multiplying etc. to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed)

(56, 28, 30)

(98, 49, 51)

Ans X 1. (36, 18, 22)

X 2. (178, 90, 92)

3. (144, 72, 74)

X 4. (162, 83, 85)

Question ID: 4410091740

Option 1 ID: 4410096955 Option 2 ID: 4410096953

Option 3 ID: 4410096956 Option 4 ID: 4410096954

Status: Answered





Q.28 If + means -, - means x, x means ÷, ÷ means +, then what will come in place of the question mark (?) in the following equation? $60 \times 6 + 11 - 2 \div 20 = ?$

Ans X 1.5

X 2. 16

X 3. 12

4. 8

Question ID: 4410091298 Option 1 ID: 4410095188 Option 2 ID: 4410095185 Option 3 ID: 4410095186 Option 4 ID: 4410095187 Status: Answered

Chosen Option: 4

Q.29 Based on the English alphabetical order, three of the following four letter-cluster pairs are alike in a certain way and thus form a group. Which letter-cluster pair DOES NOT belong to that group?

(Note: The odd one out is not based on the number of consonants/vowels or their position in the letter-cluster.)

Ans

X 1. OR-TW

🗙 2. BE-GJ

4. HK-MP

Question ID: 44100939760 Option 1 ID: 441009158572 Option 2 ID: 441009158569 Option 3 ID: 441009158570 Option 4 ID: 441009158571

Status: Answered

Chosen Option: 3

Q.30 Based on the English alphabetical order, three of the following four letter-cluster pairs are alike in a certain way and thus form a group. Which letter-cluster pair DOES NOT belong to that group?

(Note: The odd one out is not based on the number of consonants/vowels or their position in the letter-cluster.)

Ans

X 1. HA - LV

🗙 2. XG - BB

X 4. PQ - TL

Question ID: 441009350

Option 1 ID: 4410091389 Option 2 ID: 4410091392 Option 3 ID: 4410091391 Option 4 ID: 4410091390

Status: Answered





Q.31 In a certain code language, 'LAMP' is coded as '3192' and 'PALE' is coded as '1432'. What is the code for 'E' in the given code language?

Ans X 1.1

X 2.3

X 3. 9

4. 4

Question ID: 441009370

Option 1 ID: 4410091471 Option 2 ID: 4410091472 Option 3 ID: 4410091470 Option 4 ID: 4410091469

Status: Answered

Chosen Option: 4

Q.32 संख्या 2471836 में प्रत्येक अंक को बाएं से दाएं आरोही क्रम में व्यवस्थित किया जाता है। मूल संख्या की तुलना में कितने अंकों की स्थिति अपरिवर्तित रहेगी?

Ans X 1. एक



🗙 3. तीन

🗙 4. दो

Question ID: 4410091227

Option 1 ID: 4410094902 Option 2 ID: 4410094901 Option 3 ID: 4410094904 Option 4 ID: 4410094903

Status: Answered

Chosen Option: 2

Q.33 What should come in place of the question mark (?) in the given series based on the English alphabetical order?

KGU HCP EYK BUF YQA?

Ans X 1. UMW

X 2. UNX

X 3. WLU

✓ 4. VMV

Question ID: 441009362

Option 1 ID: 4410091437 Option 2 ID: 4410091440 Option 3 ID: 4410091438

Option 4 ID: 4410091439 Status: Answered





Q.34 D is the mother of F. F is the brother of G. G is the wife of H. H is the father of J. How is D related to J?

Ans X 1. Mother's sister

X 2. Father's sister X 3. Father's mother

4. Mother's mother

Question ID: 44100979 Option 1 ID: 441009306 Option 2 ID: 441009308 Option 3 ID: 441009307 Option 4 ID: 441009305 Status: Answered

Chosen Option: 4

Section: Domain Knowledge

Q.1 What does a higher star rating on an appliance indicate about its performance?

✓ 1. High energy efficiency and lower energy consumption

X 2. Lower efficiency

X 3. Greater energy consumption

X 4. Lower upfront cost

Question ID: 44100943206 Option 1 ID: 441009172289 Option 2 ID: 441009172288 Option 3 ID: 441009172287 Option 4 ID: 441009172290

Status: Answered

Chosen Option: 1

Q.2 Primary Substation receives power from:

Ans X 1. distribution substation

X 2. load

3. generating station

X 4. step-down substation

Question ID: 44100989917

Option 1 ID: 441009357829 Option 2 ID: 441009357827 Option 3 ID: 441009357826

Option 4 ID: 441009357828

Status: Answered





Q.3 In a conventional pitch-controlled turbine, how does the blade adjust its pitch?

Ans X 1. The blade uses an external control surface like an aileron

X 2. Only the inner part of the blade rotates

X 4. The entire blade changes shape without rotating

Question ID: 44100952085 Option 1 ID: 441009207466 Option 2 ID: 441009207465 Option 3 ID: 441009207464 Option 4 ID: 441009207467

Status : **Answered**

Chosen Option: 1

Q.4 The LPC2141 microcontroller features ____ pins.

Ans X 1.40

2. 64

X 3. 32

X 4. 60

Question ID: 44100998397
Option 1 ID: 441009391678
Option 2 ID: 441009391680
Option 3 ID: 441009391677
Option 4 ID: 441009391679
Status: Not Answered

Chosen Option : --

Q.5 The function of a pulse transformer used in the firing circuit is to:

Ans 1. isolate low-voltage gate circuit from high-voltage anode circuit

X 2. generate voltage pulses

X 3. feed voltage pulses to gate cathode circuit

X 4. turn ON SCR

Question ID : **44100982056** Option 1 ID : **441009325878** Option 2 ID : **441009325877**

Option 3 ID : 441009325879 Option 4 ID : 441009325880 Status : Answered





Q.6 Which of the following AC distribution systems is most reliable?

Ans X 1. Isolator distribution system

X 2. Radial distribution system

3. Ring main distribution system

X 4. Feeder distribution system

Question ID: 44100989893 Option 1 ID: 441009357733 Option 2 ID: 441009357731 Option 3 ID: 441009357730 Option 4 ID: 441009357732

Status : Answered

Chosen Option: 3

Q.7 In a squirrel cage induction generator, where does the reactive power required for operation come from?

Ans X 1. The stator of the generator

2. The grid side power source

X 3. The power converter

X 4. The turbine rotor

Question ID: 44100952069 Option 1 ID: 441009207402 Option 2 ID: 441009207401 Option 3 ID: 441009207403 Option 4 ID: 441009207400

Status : Answered

Chosen Option: 1

Q.8 Why is it beneficial to install a separate transformer for lighting system?

Ans 1. It ensures stable voltage and reduces losses.

X 2. It increases energy losses.

X 3. It decreases initial costs.

X 4. It increases overall power consumption.

Question ID: 44100957652

Option 1 ID : **441009229478** Option 2 ID : **441009229475**

Option 3 ID : **441009229476** Option 4 ID : **441009229477**

Status : **Answered**





Q.9 Class C commutation used for turning off the thyristor is also known as:

Ans X 1. load commutation

2. complementary commutation

X 3. impulse commutation

X 4. line commutation

Question ID: 44100982077 Option 1 ID: 441009325961 Option 2 ID: 441009325963 Option 3 ID: 441009325964 Option 4 ID: 441009325962

Status : **Answered** Chosen Option : **2**

Q.10 In a purely resistive AC circuit, the reactive power is _____.

Ans X 1. maximum

X 2. equal to active power

X 3. always negative

4. zero

Question ID: 44100993004 Option 1 ID: 441009369708 Option 2 ID: 441009369705 Option 3 ID: 441009369706 Option 4 ID: 441009369707

Status : **Answered** Chosen Option : **4**

Q.11 What does a power tower in CSP systems primarily do?

Ans X 1. It generates electricity directly through photovoltaic panels.

× 2. It stores solar energy for later use.

✓ 3. It concentrates sunlight onto a central receiver using mirrors.

X 4. It distributes electricity to the power grid.

9//

Question ID: 44100952358
Option 1 ID: 441009208530
Option 2 ID: 441009208529
Option 3 ID: 441009208528
Option 4 ID: 441009208531

Status : Answered





Q.12 What is the formula for calculating units generated per annum?

Ans X 1. Maximum demand × Average load × 8760

X 2. (Maximum demand × Load factor) / 8760

X 4. (Maximum demand × 8760) / Load factor

Question ID: 44100960052 Option 1 ID: 441009239148 Option 2 ID: 441009239149 Option 3 ID: 441009239147 Option 4 ID: 441009239150

Status : **Answered**

Chosen Option: 2

Q.13 What is the primary purpose of high-temperature heat energy in a bottoming cycle of a cogeneration system?

Ans X 1. To be released into the environment as waste heat

🔀 2. To improve fuel combustion efficiency

X 3. To be directly converted into mechanical energy

4. To be utilised in processes other than power generation

Question ID: 44100957622 Option 1 ID: 441009229358 Option 2 ID: 441009229355 Option 3 ID: 441009229357 Option 4 ID: 441009229356

Status : Answered

Chosen Option: 3

Q.14 What does the plant capacity factor represent?

Ans 1. The ratio of actual energy produced to the maximum possible energy that could have been generated

🗶 2. The ratio of actual energy produced to the total connected load

X 3. The ratio of connected load to the plant capacity

X 4. The ratio of maximum demand to the average demand

Question ID: 44100960055

Option 1 ID: 441009239160

Option 2 ID: 441009239159

Option 3 ID: 441009239162

Option 4 ID: 441009239161

Status : **Answered**

Chosen Option : ${\bf 1}$





Q.15 What was the main cause of the Northern India grid failure on 30th July 2012?

Ans X 1. Failure of a major hydroelectric plant

2. Overdrawing of power by the Northern Region and imbalance in load flow

X 3. A sudden drop in power generation

X 4. Cyberattack on power infrastructure

Question ID: 44100960077 Option 1 ID: 441009239246 Option 2 ID: 441009239244 Option 3 ID: 441009239243 Option 4 ID: 441009239245

Status : **Answered** Chosen Option : **2**

Q.16 What is the role of the Prescaler in a counter module?

Ans 1. To slow down the input signal before counting

X 2. To increase the counting speed

X 3. To store the count value

X 4. To reset the counter

Question ID: 44100998393 Option 1 ID: 441009391666 Option 2 ID: 441009391665 Option 3 ID: 441009391667 Option 4 ID: 441009391668

Status : Not Answered

Chosen Option : --

Q.17 How does a solar charge controller prevent overcharging of a battery?

Ans 1. By disconnecting the PV array from the battery or regulating the charging current

× 2. By increasing the load on the battery

X 3. By reducing the PV array voltage

X 4. By discharging the battery completely

Question ID: 44100952510 Option 1 ID: 441009209128 Option 2 ID: 441009209131 Option 3 ID: 441009209130

Option 4 ID : **441009209129**Status : **Answered**





Q.18 If a load draws 4 kW real power and 3 kVAR reactive power, what is the apparent power?

Ans X 1.9 kVA

× 2.4 kVA

X 3.3 kVA

Question ID: 44100992835 Option 1 ID: 441009369544 Option 2 ID: 441009369542

Option 3 ID: 441009369543 Option 4 ID: 441009369541

Status: Answered

Chosen Option: 4

Q.19 How is mutual-GMD (D_m) between two conductors defined?

Ans X 1. The mean radius of each conductor

✓ 2. The geometric mean of all possible distances between the conductors

X 3. The arithmetic mean of all distances between the conductors

X 4. The sum of conductor spacings

Question ID: 44100928771 Option 1 ID: 441009114593

Option 2 ID: 441009114591 Option 3 ID: 441009114590 Option 4 ID: 441009114592

Status: Answered

Chosen Option: 2

Q.20 The total Turn ON time of a thyristor is the sum of the

Ans X 1. reverse recovery time and gate recovery time

× 2. delay time and rise time only

X 3. delay time, rise time and gate recovery time

✓ 4. delay time, rise time and spread time

Question ID: 44100982048 Option 1 ID: 441009325839 Option 2 ID: 441009325837

Option 3 ID: 441009325840 Option 4 ID: 441009325838

Status: Answered





Q.21 Damper winding is provided in a synchronous motor:

Ans X 1. to increase synchronous reactance

X 2. to reduce armature reaction

X 3. to increase effective DC resistance

4. to start the motor

Question ID: 44100987383 Option 1 ID: 441009347372 Option 2 ID: 441009347371 Option 3 ID: 441009347374 Option 4 ID: 441009347373

Status : **Answered** Chosen Option : **4**

Q.22 Which of the following is correct regarding the primary and secondary windings of an isolation transformer?

Ans X 1. Electrically and magnetically connected

2. Electrically isolated but magnetically coupled

X 3. Connected in series

X 4. Connected in parallel

Question ID: 44100968477
Option 1 ID: 441009272538
Option 2 ID: 441009272537
Option 3 ID: 441009272536
Option 4 ID: 441009272535
Status: Answered

Chosen Option : 2

Q.23 What is primary use of Megger in measurement?

Ans 1. Measuring insulation resistance

× 2. Measuring current in a power line

X 3. Measuring voltage in a DC circuit

X 4. Measuring frequency in an AC circuit

Question ID: 44100973756

Option 1 ID: 441009293324

Option 2 ID : 441009293325 Option 3 ID : 441009293323 Option 4 ID : 441009293322

Status : Answered





Q.24 Gate pulse is required in a conventional SCR to:

Ans X 1. maintain conduction

X 2. turn OFF the device only

X 3. turn ON and turn OFF the device

4. turn ON the device only

Question ID: 44100982098 Option 1 ID: 441009326056 Option 2 ID: 441009326054 Option 3 ID: 441009326055 Option 4 ID: 441009326053 Status: Not Answered

Chosen Option: --

Q.25 In the All-Day Efficiency calculation, which of the following is included in the losses?

Ans X 1. Only core losses

X 2. Only copper losses

X 3. Only mechanical losses

4. Core and copper losses

Question ID: 44100968493 Option 1 ID: 441009272599 Option 2 ID: 441009272600 Option 3 ID: 441009272602 Option 4 ID: 441009272601

Status: Answered

Chosen Option: 4

Q.26 Which component of a wind turbine requires frequent lubrication to prevent wear?

1. Gearbox and bearings

X 2. Tower foundation

X 3. Rotor blades

X 4. Transformer

Question ID: 44100952115

Option 1 ID: 441009207580 Option 2 ID: 441009207581 Option 3 ID: 441009207579

Option 4 ID: 441009207582

Status: Answered





Q.27 Which of the following is/are NOT a key factor of power quality issue in the system?

Ans X 1. Harmonic distortion

X 2. Voltage sags

3. Power factor improvement

X 4. Voltage surges

Question ID: 44100957648 Option 1 ID: 441009229460 Option 2 ID: 441009229459 Option 3 ID: 441009229462 Option 4 ID: 441009229461

Status: Answered

Chosen Option: 2

Q.28 Which addressing mode is used in the following 8051 instruction?

MOV A, RO

Ans 1. Register Addressing

X 2. Indirect Addressing

X 3. Direct Addressing

X 4. Immediate Addressing

Question ID: 44100996886 Option 1 ID: 441009385573 Option 2 ID: 441009385572 Option 3 ID: 441009385574

Option 4 ID: 441009385571 Status: Answered

Chosen Option: 1

Q.29 What is the typical source of controlling torque in Moving Iron (MI) instruments?

Ans X 1. Gravitational pull

2. Spring mechanism

X 3. Electromagnetic force

X 4. Friction

Question ID: 44100973704

Option 1 ID: 441009293128 Option 2 ID: 441009293126 Option 3 ID: 441009293127

Option 4 ID: 441009293129

Status: Answered





Q.30 Overcurrent protection in thyristor circuit can be achieved through the use of:

Ans X 1. Zener Diode

X 2. Metal Oxide Varistors

X 3. Snubber Circuit

4. fast acting current limiting fuse

Question ID: 44100982027 Option 1 ID: 441009325755 Option 2 ID: 441009325753 Option 3 ID: 441009325754 Option 4 ID: 441009325756

Status: Answered

Chosen Option: 4

Q.31 What is the main purpose of a pulse transformer?

✓ 1. To transfer electrical pulses from one circuit to another with minimal distortion

X 2. To deliver continuous current to the load

X 3. To step up voltage for high-frequency signals

🗶 4. To provide electrical isolation between primary and secondary windings

Question ID: 44100968485 Option 1 ID: 441009272569 Option 2 ID: 441009272568 Option 3 ID: 441009272567 Option 4 ID: 441009272570

Status: Answered

Chosen Option: 1

Q.32 A sinusoidal voltage is given by $v(t) = 200 \sin(314t + 30^\circ)$. What is the correct phasor representation of this voltage?

Ans X 1. 314∠-200°

⊘ 2. 200∠30°

X 3. 314∠200°

X 4. 200∠-30°

Question ID: 44100993088

Option 1 ID: 441009370043

Option 2 ID: 441009370041 Option 3 ID: 441009370042

Option 4 ID: 441009370040

Status: Answered





Q.33 What does a Sankey diagram indicate in an electrical system?

Ans X 1. Water flow

X 2. Information flow

X 3. Financial flow

4. Energy flow

Question ID: 44100957641 Option 1 ID: 441009229431 Option 2 ID: 441009229433 Option 3 ID: 441009229432 Option 4 ID: 441009229434

Status: Answered

Chosen Option: 4

Q.34 How is an auto transformer different from a two-winding transformer?

Ans X 1. It has two separate windings.

X 2. It can only step up the voltage.

3. It uses a single winding for both primary and secondary.

X 4. It can only step down the voltage.

Question ID: 44100968465 Option 1 ID: 441009272487 Option 2 ID: 441009272490 Option 3 ID: 441009272488 Option 4 ID: 441009272489

Status: Answered

Chosen Option: 3

Q.35 Which component of wind turbine maintenance is directly related to the amount of plant operation?

Ans X 1. Periodic testing

2. Variable operation and maintenance costs

X 3. Fixed operation and maintenance costs

X 4. Routine checks

Question ID: 44100952099

Option 1 ID: 441009207523 Option 2 ID: 441009207522

Option 3 ID: 441009207521

Option 4 ID: 441009207520

Status: Answered





Q.36 Why was RISC architecture introduced?

Ans X 1. To make processors consume more power

2. To simplify the instruction set for faster execution

X 3. To replace microcontrollers

X 4. To increase the number of instructions in a processor

Question ID: 44100998401 Option 1 ID: 441009391703 Option 2 ID: 441009391701 Option 3 ID: 441009391704 Option 4 ID: 441009391702

Status : **Answered** Chosen Option : **2**

Q.37 When should the energy audit report be provided?

Ans X 1. Only when requested by the management

2. After conducting a thorough energy audit

X 3. Before starting the audit

X 4. During the audit process

Question ID: 44100957644
Option 1 ID: 441009229443
Option 2 ID: 441009229446
Option 3 ID: 441009229444
Option 4 ID: 441009229445

Status: Answered

Chosen Option: 2

Q.38 In an RC firing circuit, the firing angle can vary from:

Ans X 1. 180° to 360°

X 2. 90° to 180°

X 3. 0° to 90°

✓ 4. 0° to 180°

Adda 247

Question ID: 44100982063 Option 1 ID: 441009325908 Option 2 ID: 441009325906 Option 3 ID: 441009325905 Option 4 ID: 441009325907

Status : Answered

Chosen Option : ${\bf 3}$





Q.39 In a DC potentiometer, what does the null point indicate?

Ans X 1. The resistance has reached its maximum value.

✓ 2. The measured voltage is equal to the reference voltage.

X 3. The voltage is at its highest level.

4. There is no current flowing through the circuit.

Question ID: 44100973835 Option 1 ID: 441009293570 Option 2 ID: 441009293572 Option 3 ID: 441009293573 Option 4 ID: 441009293571

Status: Answered

Chosen Option : 2

Q.40 Why is the load factor always less than 1?

Ans 💜 1. Because the average load is always smaller than the maximum demand

🗶 2. Because the load factor is dependent on transmission losses

💢 3. Because the maximum demand is always less than the average load

X 4. Because the power plant operates at full capacity all the time

Question ID: 44100960062 Option 1 ID: 441009239189 Option 2 ID: 441009239190 Option 3 ID: 441009239187 Option 4 ID: 441009239188

Status : **Answered** Chosen Option : **1**

Q.41 What is the name of the gas produced when biomass undergoes air gasification?

Ans X 1. Natural gas

X 2. Hydrogen gas

X 3. Methane gas

4. Producer gas

Question ID: **44100960108**Option 1 ID: **441009239371**

Option 2 ID: 441009239374 Option 3 ID: 441009239373 Option 4 ID: 441009239372

Status : Answered





Q.42 In a transposition cycle, how are the conductors arranged?

Ans X 1. They are placed farther apart to reduce capacitance.

X 2. They remain in the same position throughout the line.

X 3. They are twisted together to form a bundle.

✓ 4. They change positions in a repeating sequence over equal distances.

Question ID: 44100928836 Option 1 ID: 441009114837 Option 2 ID: 441009114834 Option 3 ID: 441009114836 Option 4 ID: 441009114835

Status: Answered

Chosen Option: 4

Q.43 A single-phase AC circuit has a voltage of 230V (RMS) and a current of 10A (RMS) with a power factor of 0.8 lagging. What is the reactive power?

X 2. 2.3 kVAR

X 3. 1.2 kVAR

X 4. 1.84 kVAR

Question ID: 44100992837 Option 1 ID: 441009369754 Option 2 ID: 441009369756 Option 3 ID: 441009369753 Option 4 ID: 441009369755 Status: Answered

Chosen Option : 1

Q.44 Which of the following distribution systems is the most economical?

Ans X 1. AC 3-phase 5-wire system

× 2. AC single-phase 5-wire system

X 4. AC single-phase 2-wire system

Question ID: 44100989897

Option 1 ID : **441009357746** Option 2 ID : **441009357748**

Option 3 ID : **441009357747** Option 4 ID : **441009357749**

Status : Answered





Q.45 How does the use of phasors help in calculating the efficiency of a single-phase transformer?

Ans X 1. Phasors determine the thermal losses in the transformer.

X 2. Phasors provide the maximum current that a transformer can handle.

4. Phasors allow calculation of instantaneous current and voltage.

Question ID: 44100968499 Option 1 ID: 441009272626 Option 2 ID: 441009272625 Option 3 ID: 441009272624 Option 4 ID: 441009272623

Status: Answered

Chosen Option: 4

Q.46 What is the primary function of the CPSR (Current Program Status Register) in an ARM processor?

Ans X 1. Managing system memory allocation

✓ 2. Holding condition flags, control bits and processor mode information

X 3. Controlling pipeline execution

X 4. Storing general-purpose register values

Question ID: 44100998399
Option 1 ID: 441009391686
Option 2 ID: 441009391687
Option 3 ID: 441009391688
Option 4 ID: 441009391685

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

Q.47 A UJT exhibits negative resistance characteristics in which region?

Ans X 1. Below the peak point

2. Between the peak point and valley point

X 3. For all regions after the peak point

X 4. After the valley point

Question ID: 44100982072

Option 1 ID : **441009325941** Option 2 ID : **441009325943** Option 3 ID : **441009325944**

Option 4 ID : **441009325942**Status : **Not Answered**





Q.48 What is the primary reason for the proximity effect in conductors?

Ans X 1. The physical movement of electrons towards the outer surface

X 2. Uneven heating of the conductor

✓ 3. Circulating currents due to mutual inductance between adjacent conductors

X 4. The resistance of the conductor

Question ID: 44100928807 Option 1 ID: 441009114729 Option 2 ID: 441009114728 Option 3 ID: 441009114726 Option 4 ID: 441009114727

Status : **Answered** Chosen Option : **3**

Q.49 In a single phase AC circuit, supplied with a voltage V and drawing a current I, if ϕ is the phase angle between V and I, what is expression for real power P consumed by the circuit.

 \times 2. P = $\sqrt{3}$ VIsin ϕ

X 3. P = VIsin ф

×4.P = 3VIsinφ

Question ID: 44100993050 Option 1 ID: 441009369893 Option 2 ID: 441009369892 Option 3 ID: 441009369895 Option 4 ID: 441009369894

Status : Answered

Chosen Option: 1

Q.50 What is a common solid biomass waste product used for energy?

Ans 🗳 1. Wood chips

🔀 2. Crude oil

X 3. Uranium

X 4. LPG

Question ID: 44100960125

Option 1 ID: 441009239436

Option 2 ID: 441009239435

Option 3 ID: 441009239438

Option 4 ID: 441009239437

Status : Answered





Q.51 Why is energy conservation important in transformers?

Ans X 1. To increase the number of turns

2. To decrease power losses and improve system efficiency

X 3. To reduce the amount of power

X 4. To increase the weight of transformers

Question ID: 44100943212 Option 1 ID: 441009172310 Option 2 ID: 441009172308 Option 3 ID: 441009172307 Option 4 ID: 441009172309

Status: Answered

Chosen Option: 2

Q.52 What is the purpose of an extension in moving iron instruments?

Ans X 1. To make the instrument more accurate

X 2. To modify the frequency response

3. To increase the deflection range

X 4. To protect the instrument from high currents

Question ID: 44100973713 Option 1 ID: 441009293163 Option 2 ID: 441009293164 Option 3 ID: 441009293162 Option 4 ID: 441009293165

Status: Answered Chosen Option: 3

Q.53 Consider the following statements regarding phase difference. Which of the following options is correct?

Statement 1: Two sinusoidal voltages are said to be in phase if their phase difference is zero. Statement 2: If one waveform lags another by 90°, then they are considered to be completely out of phase.

Ans

✓ 1. Statement 1 is correct, but Statement 2 is incorrect.

🗶 2. Both statements are correct, and Statement 2 is the correct explanation of Statement

X 3. Both statements are incorrect.

X 4. Both statements are correct, but Statement 2 is not the correct explanation of Statement 1.

> Question ID: 44100992662 Option 1 ID: 441009368559 Option 2 ID: 441009368557 Option 3 ID: 441009368560

Option 4 ID: 441009368558 Status: Answered





Q.54 What is the verification temperature for the resistance of the Government of India Ohm Standard?

Ans X 1. 25°C

✓ 2. 30°C

X 3. 35°C

X 4. 20°C

Question ID: 44100949289

Option 1 ID: 441009196449 Option 2 ID: 441009196450

Option 3 ID: 441009196451 Option 4 ID: 441009196448

Status: Answered

Chosen Option: 1

Q.55 What is the primary function of the controlling torque in electrostatic instruments?

Ans X 1. To maintain the movement of the system

X 2. To regulate the power supply

X 4. To increase the sensitivity of the instrument

Question ID: 44100973690 Option 1 ID: 441009293074

Option 2 ID: 441009293077 Option 3 ID: 441009293075 Option 4 ID: 441009293076

Status: Answered

Chosen Option: 3

Q.56 How is a brownout different from a blackout?

Ans X 1. A brownout affects a large area, while a blackout only affects industrial consumers.

2. A blackout is a total power loss, while a brownout is a partial voltage reduction.

X 3. A blackout reduces voltage, while a brownout completely shuts off power.

X 4. A brownout completely cuts power, while a blackout only reduces frequency.

Question ID: 44100960068

Option 1 ID: 441009239210

Option 2 ID: 441009239209

Option 3 ID: 441009239207

Option 4 ID: 441009239208

Status: Answered





Q.57 In a parallel R-L circuit, the total current is obtained by the:

Ans X 1. algebraic sum of I_R and I_I

2. phasors sum of I_R and I_I

X 3. reciprocal of sum of I_R and I_I

4. multiplication of I_R and I_L

Question ID: 44100991357 Option 1 ID: 441009363660 Option 2 ID: 441009363661 Option 3 ID: 441009363663 Option 4 ID: 441009363662

Status : **Answered**

Chosen Option: 2

Q.58 What is the primary principle behind the operation of an electrostatic voltmeter?

Ans X 1. Electromagnetic induction

2. Electrostatic attraction and repulsion

X 3. Thermal expansion

X 4. Piezoelectric effect

Question ID: 44100973883 Option 1 ID: 441009293714 Option 2 ID: 441009293715 Option 3 ID: 441009293716 Option 4 ID: 441009293717

Status : **Answered** Chosen Option : **2**

Q.59 What preventive action can help identify potential imbalance or misalignment in a Small Wind Turbine?

Ans X 1. Increasing the rotor speed

× 2. Installing a larger generator

X 3. Painting the turbine blades frequently

4. Monitoring vibration levels regularly

Question ID : 44100952196

Option 1 ID: 441009207904

Option 2 ID: 441009207903

Option 3 ID : 441009207905

Option 4 ID: 441009207906

Status : Answered





Q.60 What is the primary function of a welding transformer?

Ans 1. To step down the voltage to provide the necessary welding current

X 2. To convert DC to AC

X 3. To provide power for industrial machines

X 4. To step up voltage for high-voltage applications

Question ID: 44100968481 Option 1 ID: 441009272552 Option 2 ID: 441009272554 Option 3 ID: 441009272553 Option 4 ID: 441009272551

Status : **Answered**

Chosen Option: 1

Q.61 What is the primary reason for considering capacitance effects in medium transmission

Ans 1. To improve voltage regulation calculations

🗙 2. To increase power losses

X 3. To eliminate inductive reactance

X 4. To increase the resistance of conductors

Question ID: 44100928840
Option 1 ID: 441009114850
Option 2 ID: 441009114851
Option 3 ID: 441009114853
Option 4 ID: 441009114852
Status: Answered

Chosen Option: 1

Q.62 Torque in a switched reluctance motor is:

Ans X 1. inversely proportional to current

2. directly proportional to square of current

X 3. inversely proportional to square of current

X 4. directly proportional to current

Question ID: 44100989992

Option 1 ID: 441009358137 Option 2 ID: 441009358134 Option 3 ID: 441009358135

Option 4 ID: 441009358136

Status : Not Answered





Q.63 Which of the following is a part of a shaded pole motor?

1. Cage rotor

X 2. Commutator

X 3. Contactor

X 4. Brushes

Question ID: 44100987180 Option 1 ID: 441009346514 Option 2 ID: 441009346511 Option 3 ID: 441009346513 Option 4 ID: 441009346512

Status: Answered

Chosen Option: 1

Q.64 What is the purpose of the INTR pin in an ADC interfaced with the 8051 microcontroller?

Ans 1. To indicate that the conversion is complete

X 2. To select the ADC input channel

X 3. To reset the ADC

X 4. To enable the ADC

Question ID: 44100997107 Option 1 ID: 441009386468 Option 2 ID: 441009386470 Option 3 ID: 441009386469 Option 4 ID: 441009386467

Status: Not Answered Chosen Option: --

Q.65 When should a generator be connected to the grid, according to the synchroscope?

Ans X 1. When the synchroscope needle is at the maximum deflection

X 2. When the synchroscope needle is pointing to the 'fast' side

✓ 3. When the synchroscope needle is pointing to the zero position (middle)

X 4. When the synchroscope needle is pointing to the 'slow' side

Question ID: 44100973896

Option 1 ID: 441009293757 Option 2 ID: 441009293754

Option 3 ID: 441009293756 Option 4 ID: 441009293755

Status: Answered





Q.66 Which of the following characteristics is exhibited by servo motor?

Ans X 1. It provides precise open loop speed control.

X 2. A torque is developed in rotor which moves where reluctance of flux is minimum.

X 3. It can accelerate at very high inertia.

Question ID: 44100989983 Option 1 ID: 441009358103 Option 2 ID: 441009358104 Option 3 ID: 441009358105 Option 4 ID: 441009358102

Status : **Answered** Chosen Option : **2**

Q.67 What is the primary function of an integrating instrument?

Ans X 1. To measure the instantaneous value of a physical quantity

X 2. To measure the peak value of a quantity

3. To measure the average value of a quantity over time

X 4. To measure the voltage of AC circuits

Question ID: 44100973865 Option 1 ID: 441009293662 Option 2 ID: 441009293664 Option 3 ID: 441009293663 Option 4 ID: 441009293665

Status : **Answered** Chosen Option : **3**

Q.68 What is the primary function of a timer module in an ARM processor?

Ans X 1. To perform arithmetic operations

X 2. To manage input/output operations

3. To count time intervals or generate delays

X 4. To generate clock signals

Question ID: 44100998394

Option 1 ID: **441009391672**Option 2 ID: **441009391670**Option 3 ID: **441009391671**

Option 4 ID : **441009391669** Status : **Not Answered**





Q.69 The formula for string efficiency is given by the ratio of the voltage across the whole string to the:

Ans X 1. voltage across each individual disc

💢 2. product of the number of discs and the voltage across the conductor

3. product of the number of discs and the voltage across the disc nearest to the conductor

X 4. number of discs and the total voltage across the string

Question ID: 44100928490
Option 1 ID: 441009113499
Option 2 ID: 441009113498
Option 3 ID: 441009113496
Option 4 ID: 441009113497
Status: Answered

Chosen Option: 3

Q.70 In an electric power system, the load factor is defined as:

Ans 1. average load divided by the maximum load

💢 2. average load divided by the rated capacity of the system

💢 3. total energy consumed divided by the maximum load

X 4. maximum load divided by the average load

Question ID: 44100949382
Option 1 ID: 441009196810
Option 2 ID: 441009196808
Option 3 ID: 441009196811
Option 4 ID: 441009196809
Status: Answered

Chosen Option : 1

Q.71 Blocked rotor test is performed on a three-phase induction motor to determine:

Ans X 1. no load current

X 2. no load power factor

3. power factor on the short circuit

X 4. temperature withstand capability of the motor

Question ID: 44100988118

Option 1 ID: 441009350411

Option 2 ID: 441009350412

Option 3 ID : **441009350409**

Option 4 ID : **441009350410**

Status : Answered





Q.72 What happens to the size of a conductor when the voltage is increased by a factor of 'n' (assuming constant transmission efficiency)?

Ans

X 1. Increases by n² times

 \checkmark 2. Decreases the size to $1/n^2$ of the original size

X 3. Doubles the size of conductor

X 4. Remains unchanged

Question ID: 44100952206 Option 1 ID: 441009207946 Option 2 ID: 441009207945 Option 3 ID: 441009207944 Option 4 ID: 441009207943

Status: Answered

Chosen Option: 2

Q.73 A single-phase AC circuit has an apparent power of 600 VA and an active power of 480 W. Calculate the power factor of the circuit.

Ans X 1. 0.6

X 2. 0.707

X 3. 0.866

4. 0.8

Question ID: 44100993024 Option 1 ID: 441009369796 Option 2 ID: 441009369794 Option 3 ID: 441009369795 Option 4 ID: 441009369793

Status: Answered Chosen Option: 4

Q.74 Which of the following is correct in regard to voltage regulation of a transformer?

Ans X 1. The ratio of full-load voltage to no-load voltage.

💢 2. The difference between primary voltage and secondary voltage at full load.

the full-load voltage.

4. The ratio of no-load voltage to full-load voltage.

Question ID: 44100949173

Option 1 ID: 441009195988 Option 2 ID: 441009195991

Option 3 ID: 441009195990 Option 4 ID: 441009195989

Status: Answered





Q.75 Which of the following is true about the diversity factor in a system?

Ans X 1. It is used to reduce the total connected load in a system.

X 2. A higher diversity factor usually means higher peak loads.

3. A higher diversity factor helps in reducing the maximum demand.

4. It helps to determine the total cost of energy generation.

Question ID: 44100949389 Option 1 ID: 441009196838 Option 2 ID: 441009196837 Option 3 ID: 441009196839 Option 4 ID: 441009196836

Status: Answered

Chosen Option : 3

Q.76 Which of the following can decrease the transmission efficiency of a line?

Ans X 1. Using a higher power factor

× 2. Increasing the transmission voltage

X 3. Reducing transmission distance

Question ID: 44100928831 Option 1 ID: 441009114814 Option 2 ID: 441009114815 Option 3 ID: 441009114817

Option 4 ID : **441009114816**Status : **Answered**

Chosen Option: 4

Q.77 Why are primary batteries also called 'dry batteries'?

Ans X 1. Because they do not need maintenance

X 2. Because they use only dry chemicals

X 3. Because they operate without electrolyte

✓ 4. Because the electrolyte is absorbed in the separator and no free liquid is present

Question ID: 44100952515

Option 1 ID: 441009209150

Option 2 ID: 441009209151

Option 3 ID : 441009209148

Option 4 ID: 441009209149

Status: Answered





Q.78 A power station has the following daily load cycle:

260 MW for 6 hours

200 MW for 8 hours

160 MW for 4 hours

100 MW for 6 hours

The power station is equipped with 4 sets of 75 MW each. What is the plant capacity factor?

Ans

X 2. 55.6%

X 3. 70.5%

X 4. 80.2%

Question ID: 44100960059

Option 1 ID: 441009239175 Option 2 ID: 441009239178 Option 3 ID: 441009239176 Option 4 ID: 441009239177

Status: Answered

Chosen Option: 1

Q.79 Class D commutation used for turning off the thyristor is a type of:

Ans X 1. self commutation

X 2. line commutation

3. voltage commutation

X 4. external pulse commutation

Question ID: 44100982085 Option 1 ID: 441009325994 Option 2 ID: 441009325995

Option 3 ID: 441009325993 Option 4 ID: 441009325996

Status: Not Answered

Chosen Option: --

Q.80 In a synchronous motor, mechanical power developed for constant supply voltage and constant excitation will be maximum when:

Ans \times 1. load angle δ will be greater than internal angle θ

 \times 2. load angle δ will be less than internal angle θ

 \checkmark 3. load angle δ will be equal to internal angle θ

 \times 4. load angle δ will be equal to zero

Question ID: 44100987417

Option 1 ID: 441009347540 Option 2 ID: 441009347541

Option 3 ID: 441009347539 Option 4 ID: 441009347542

Status: Answered





Q.81 Resistance start single phase induction motors are used in:

1. domestic refrigerators

X 2. electric clocks

X 3. timing devices

X 4. instrument servos

Question ID: 44100987293 Option 1 ID: 441009346963 Option 2 ID: 441009346965

Option 3 ID: 441009346964 Option 4 ID: 441009346966

Status: Answered Chosen Option: 1

Q.82 What type of solar charge controller is better suited for larger solar power systems?

Ans X 1. Pulse Width Modulation

X 2. Analog Controllers

X 3. Manual Controllers

4. Maximum Power Point Tracking

Question ID: 44100952525

Option 1 ID: 441009209189 Option 2 ID: 441009209191 Option 3 ID: 441009209188

Option 4 ID: 441009209190 Status: Answered

Chosen Option: 4

Q.83 What does the shunt branch of the transformer's equivalent circuit represent?

Ans X 1. The load on the transformer.

X 2. The series resistance and reactance.

X 3. The leakage reactance of the transformer windings

✓ 4. The magnetising current and core losses.

Question ID: 44100949171

Option 1 ID: 441009195980

Option 2 ID: 441009195982

Option 3 ID: 441009195983

Option 4 ID: 441009195981

Status: Answered





Q.84 What is the purpose of the Sample and Hold circuit in an ADC?

Ans X 1. To hold the converted digital value

✓ 2. To store the analog signal momentarily before conversion

X 3. To amplify the signal before conversion

X 4. To filter out noise from the input signal

Question ID: 44100998392
Option 1 ID: 441009391664
Option 2 ID: 441009391661
Option 3 ID: 441009391662
Option 4 ID: 441009391663
Status: Not Answered

Chosen Option: --

Q.85 Stepper motor rotational speed is determined by _____

Ans X 1. load

X 2. direction of torque developed

X 3. synchronous speed

4. step pulse frequency

Question ID: 44100989986 Option 1 ID: 441009358115 Option 2 ID: 441009358116 Option 3 ID: 441009358117 Option 4 ID: 441009358114

Status : **Answered** Chosen Option : **4**

Adda 247