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EA (Electrical)

31 July 2023





केंद्रीय विद्युत अनुसंधान संस्थान
(विद्युत मंत्रालय, भारत सरकार के अधीन स्वायत्त संसाधनी)
Central Power Research Institute
(An Autonomous Society Under Ministry of Power, Govt. Of India)

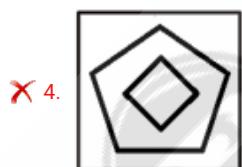
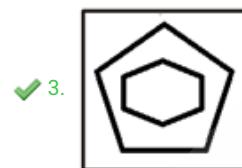
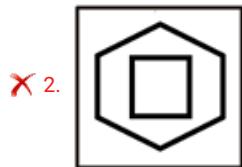
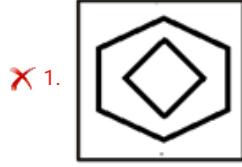
Participant ID	
Participant Name	
Test Center Name	
Test Date	31/07/2023
Test Time	3:30 PM - 5:00 PM
Subject	ENGINEERING ASSISTANT ELECTRICAL

Section : General Intelligence & Reasoning

Q.1 Select the option that is related to the third figure in the same way as the second figure is related to the first figure.



Ans



Question ID : 630680286714

Option 1 ID : 6306801114780

Option 2 ID : 6306801114782

Option 3 ID : 6306801114779

Option 4 ID : 6306801114781

Status : Answered

Chosen Option : 3



Q.2 उस विकल्प का चयन करें जिसमें शब्द-जोड़ वही संबंध रखते हैं, जो दिए गए शब्दों के जोड़े द्वारा साझा किया गया है?

पेडल : साइकिल

Ans ✗ 1. नाव : नदी

✓ 2. पंख : पक्षी

✗ 3. माउस : कीबोर्ड

✗ 4. बस : कार

Question ID : 630680286709

Option 1 ID : 6306801114762

Option 2 ID : 6306801114761

Option 3 ID : 6306801114760

Option 4 ID : 6306801114759

Status : Answered

Chosen Option : 2

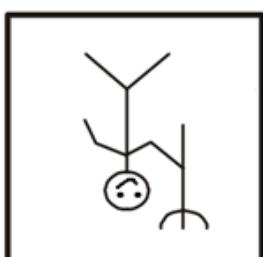


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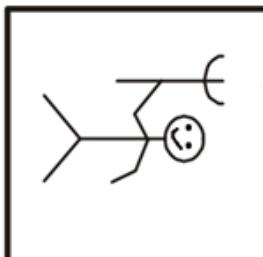
Q.3 चार आकृतियाँ दी गई हैं, जिनमें से तीन किसी रूप में समान हैं और एक अनियन्त्रित है। जो अनियन्त्रित है, उसका चयन करें।

Ans

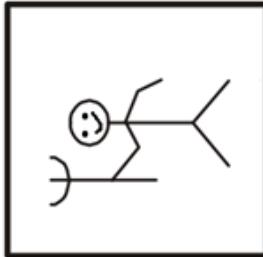
✗ 1.



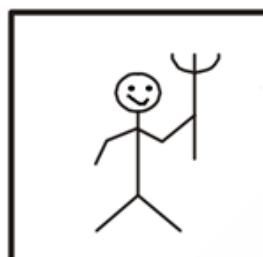
✗ 2.



✗ 3.



✓ 4.



Question ID : 630680286713

Option 1 ID : 6306801114775

Option 2 ID : 6306801114778

Option 3 ID : 6306801114776

Option 4 ID : 6306801114777

Status : Answered

Chosen Option : 4

Q.4 एक निश्चित कूट भाषा में, 'COMPUTERS' को 'SERTUPOMC' और 'MULTIBANK' को 'KANBITULM' लिखा जाता है। उस भाषा में 'SIGNATURE' कैसे लिखा जाएगा?

Ans

✗ 1. EUARTGNIS

✗ 2. EUTARNIGS

✗ 3. EUANIRTGS

✓ 4. EURTANIGS

Question ID : 630680286718

Option 1 ID : 6306801114797

Option 2 ID : 6306801114798

Option 3 ID : 6306801114795

Option 4 ID : 6306801114796

Status : Answered

Chosen Option : 4



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Q.5 दिए गए कथनों और निष्कर्षों को प्यानपूर्वक पढ़ें। यह मानते हुए कि कथनों में दी गई जानकारी सत्य है, भले ही यह सामान्यतः ज्ञात तथ्यों से भिन्न प्रतीत होती हो, निर्णय तें कि दिए गए निष्कर्षों में से कौन सा निष्कर्ष कथनों का तार्किक रूप से अनुसरण करता है।

कथन:

- (A) सभी पक्षी, बिलियाँ हैं।
- (B) सभी कुत्ते, बिलियाँ हैं।
- (C) कुछ बिलियाँ, घोड़े हैं।

निष्कर्ष:

- I. कुछ पक्षी, कुत्ते हैं।
- II. कुछ कुत्ते, घोड़े हैं।

Ans ✓ 1. न तो निष्कर्ष। और न ही। अनुसरण करता है।

✗ 2. निष्कर्ष। और। दोनों अनुसरण करते हैं।

✗ 3. केवल निष्कर्ष। अनुसरण करता है।

✗ 4. केवल निष्कर्ष। अनुसरण करता है।

Question ID : 630680286708

Option 1 ID : 6306801114757

Option 2 ID : 6306801114758

Option 3 ID : 6306801114756

Option 4 ID : 6306801114755

Status : Answered

Chosen Option : 1

Q.6 नीचे चार अक्षर-समूह दिए गए हैं, जिनमें से तीन किसी तरह से समान हैं और एक भिन्न है। जो अलग है, उसे चुनें।

Ans ✓ 1. UOI

✗ 2. QLG

✗ 3. MHC

✗ 4. XSN

Question ID : 630680286710

Option 1 ID : 6306801114764

Option 2 ID : 6306801114766

Option 3 ID : 6306801114765

Option 4 ID : 6306801114763

Status : Answered

Chosen Option : 1



Q.7 दिए गए विकल्पों में से उस संख्या का चयन करें जो निम्नलिखित शृंखला में प्रश्न चिह्न (?) को प्रतिस्थापित कर सके।

90, 180, 280, 390, 510, ?

Ans 1. 620

2. 640

3. 630

4. 650

Question ID : 630680286720

Option 1 ID : 6306801114803

Option 2 ID : 6306801114805

Option 3 ID : 6306801114806

Option 4 ID : 6306801114804

Status : Answered

Chosen Option : 2

Q.8 Select the number from among the given options that can replace the question mark (?) in the following series.

23, 47, 93, 187, 373, ?

Ans 1. 744

2. 746

3. 745

4. 747

Question ID : 630680286717

Option 1 ID : 6306801114793

Option 2 ID : 6306801114791

Option 3 ID : 6306801114792

Option 4 ID : 6306801114794

Status : Answered

Chosen Option : 4



Q.9 दिए गए कथनों और निष्कर्षों को प्यानपूर्वक पढ़ें। यह मानते हुए कि कथनों में दी गई जानकारी सत्य है, भले ही यह सामान्यतः ज्ञात तथ्यों से भिन्न प्रतीत होती हो, निर्णय तें कि दिए गए निष्कर्षों में से कौन सा निष्कर्ष कथनों का तार्किक रूप से अनुसरण करता है।

कथन:

- (A) कुछ बर्से, कारें हैं।
(B) कोई कार, टेबल नहीं है।
(C) कुछ टेबल, घड़ियाँ हैं।

निष्कर्ष:

- I. कुछ बर्से, टेबल नहीं हैं।
II. कुछ कारें, घड़ियाँ हैं।
- Ans **✗ 1. न तो निष्कर्ष । और न ही ॥ अनुसरण करता है।**
- ✓ 2. केवल निष्कर्ष । अनुसरण करता है।**
- ✗ 3. निष्कर्ष । और ॥ दोनों अनुसरण करते हैं।**
- ✗ 4. केवल निष्कर्ष ॥ अनुसरण करता है।**

Question ID : 630680286719

Option 1 ID : 6306801114801

Option 2 ID : 6306801114799

Option 3 ID : 6306801114802

Option 4 ID : 6306801114800

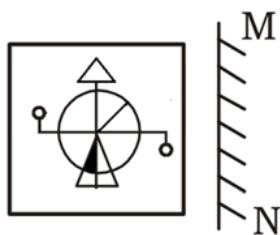
Status : Answered

Chosen Option : 2

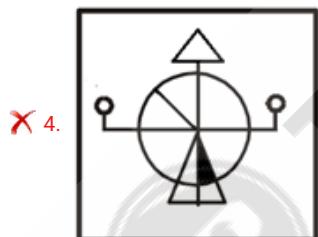
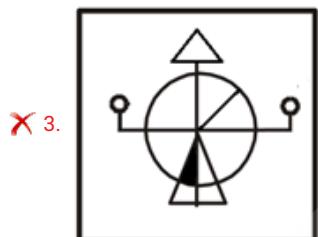
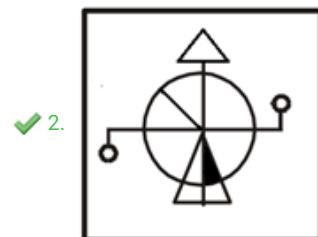
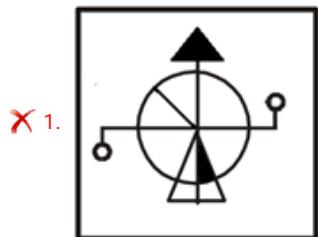


Q.10 Select the correct mirror image of the given figure when the mirror is held/placed at MN.

Question Figure :



Ans



Question ID : 630680286712

Option 1 ID : 6306801114774

Option 2 ID : 6306801114772

Option 3 ID : 6306801114773

Option 4 ID : 6306801114771

Status : Answered

Chosen Option : 2



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Q.11 What approximate value should come in place of the question mark (?) in the following equation?

$$94.89 - 120.99 + 11 \times 9.99 + 85.01 = ?$$

Ans

✓ 1. 70

✗ 2. 85

✗ 3. 100

✗ 4. 55

Question ID : 630680286716

Option 1 ID : 6306801114787

Option 2 ID : 6306801114790

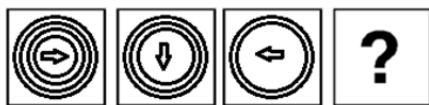
Option 3 ID : 6306801114788

Option 4 ID : 6306801114789

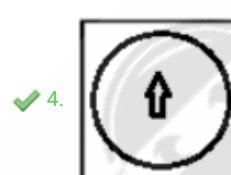
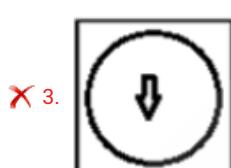
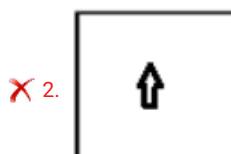
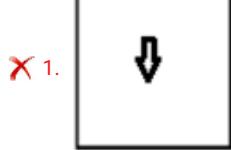
Status : Not Answered

Chosen Option : --

Q.12 Select the figure from among the given options that can replace the question mark (?) in the following series.



Ans



Question ID : 630680286711

Option 1 ID : 6306801114767

Option 2 ID : 6306801114769

Option 3 ID : 6306801114768

Option 4 ID : 6306801114770

Status : Answered

Chosen Option : 4



Q.13 Which two signs should be interchanged to make the following equation correct?

$$25 \times 15 - 125 \div 5 + 75 = 325$$

- Ans 1. \times and \div
 2. $-$ and \div
 3. $-$ and $+$
 4. \times and $+$

Question ID : 630680286715

Option 1 ID : 6306801114784

Option 2 ID : 6306801114786

Option 3 ID : 6306801114785

Option 4 ID : 6306801114783

Status : Answered

Chosen Option : 3

Q.14 सात लोग L, M, N, O, P, Q और R एक गोलाकार मेज के चारों ओर केंद्र की ओर सुंह करके बैठे हैं। Q और N के बीच केवल L बैठा है। M, N के ठीक बायीं ओर हैं। Q, O के निकटतम बायीं ओर हैं। M और P के बीच केवल R बैठा है। निम्नलिखित में से कौन P के निकटतम बायीं ओर बैठा है?

- Ans 1. Q
 2. O
 3. R
 4. M

Question ID : 630680286706

Option 1 ID : 6306801114748

Option 2 ID : 6306801114749

Option 3 ID : 6306801114747

Option 4 ID : 6306801114750

Status : Answered

Chosen Option : 2

Q.15 एक खास कूट भाषा में, 'FLUTE' को 'UOFGV' के रूप में और 'LOYAL' को 'OLBZO' के रूप में लिखा गया है। उस भाषा में 'MONEY' को कैसे लिखा जायेगा?

- Ans 1. NLPVB
 2. NLMVB
 3. MIOUA
 4. MIPUA

Question ID : 630680286707

Option 1 ID : 6306801114754

Option 2 ID : 6306801114752

Option 3 ID : 6306801114753

Option 4 ID : 6306801114751

Status : Answered

Chosen Option : 3

Section : General Awareness

Q.1 भारतीय जूनियर पुरुष हॉकी टीम ओमान में निम्नलिखित में से किस टीम को हराकर एशिया कप चैंपियन 2023 बनी?

- Ans 1. पाकिस्तान
 2. सऊदी अरब
 3. श्रीलंका
 4. ओमान

Question ID : 630680286725
Option 1 ID : 6306801114823
Option 2 ID : 6306801114825
Option 3 ID : 6306801114824
Option 4 ID : 6306801114826
Status : Answered
Chosen Option : 2

Q.2 माइक्रो-क्रेडिट योजना पीएम स्वनिधि के तहत, भारत की केंद्र सरकार ने निम्नलिखित में से किसके लिए क्रृति आवेदन प्रक्रिया को आसान बनाने के लिए जून 2023 में पीएम स्वनिधि मोबाइल एप्लिकेशन प्रारंभ किया?

- Ans 1. प्राइवेट स्कूल मालिक
 2. वृद्धावस्था पेंशनर
 3. बीपीएल परिवार
 4. पटरी दुकानदार

Question ID : 630680286722
Option 1 ID : 6306801114814
Option 2 ID : 6306801114812
Option 3 ID : 6306801114811
Option 4 ID : 6306801114813
Status : Not Answered
Chosen Option : --

Q.3 निम्नलिखित में से कौन सा शासकों के शासनकाल का सही कालानुक्रमिक क्रम है?

- Ans 1. गयासुद्दीन बलबन, रजिया सुल्तान, मुहम्मद बिन तुगलक, अलाउद्दीन खिलजी
 2. रजिया सुल्तान, गयासुद्दीन बलबन, अलाउद्दीन खिलजी, मुहम्मद बिन तुगलक
 3. रजिया सुल्तान, गयासुद्दीन बलबन, मुहम्मद बिन तुगलक, अलाउद्दीन खिलजी
 4. अलाउद्दीन खिलजी, गयासुद्दीन बलबन, रजिया सुल्तान, मुहम्मद बिन तुगलक

Question ID : 630680286729
Option 1 ID : 6306801114841
Option 2 ID : 6306801114842
Option 3 ID : 6306801114840
Option 4 ID : 6306801114839
Status : Answered
Chosen Option : 2

Q.4 सुवर्णरेखा नदी भारत के निम्नलिखित में से किस राज्य से होकर बहती है?

- Ans 1. सिक्किम
 2. तेलंगाना
 3. केरल
 4. ओडिशा

Question ID : 630680286731
Option 1 ID : 6306801114850
Option 2 ID : 6306801114847
Option 3 ID : 6306801114848
Option 4 ID : 6306801114849
Status : Answered
Chosen Option : 4

Q.5 निम्नलिखित में से किस राज्य ने, गृह मंत्री लालचमलियाना के नेतृत्व में मणिपुर से आंतरिक विस्थापित व्यक्तिय (IDP) पर उच्च स्तरीय समिति का गठन किया?

- Ans 1. सिक्किम
 2. त्रिपुरा
 3. मिजोरम
 4. असम

Question ID : 630680286721
Option 1 ID : 6306801114810
Option 2 ID : 6306801114807
Option 3 ID : 6306801114808
Option 4 ID : 6306801114809
Status : Answered
Chosen Option : 3

Q.6 निम्नलिखित में से किस वर्ष में गोवा सरकार ने गोवा में कॉकणी को बढ़ावा देने के लिए गोवा कॉकणी अकादमी (गोवा एकैडेमी ऑफ लेटर्स फॉर कॉकणी) की स्थापना की?

- Ans 1. 1998
 2. 1974
 3. 1969
 4. 1986

Question ID : 630680286735
Option 1 ID : 6306801114866
Option 2 ID : 6306801114863
Option 3 ID : 6306801114865
Option 4 ID : 6306801114864
Status : Not Answered
Chosen Option : --

Q.7 ब्रिटिश राज काल के दौरान निर्मित पूर्व डलहौजी स्कवायर (वर्तमान में बेनॉय-बादल-दिनेश बाग के नाम से जाना जाता है) कहां स्थित है?

- Ans 1. कोलकाता
 2. चेन्नई
 3. चंडीगढ़
 4. शिमला



Question ID : 630680286733
Option 1 ID : 6306801114855
Option 2 ID : 6306801114858
Option 3 ID : 6306801114856
Option 4 ID : 6306801114857
Status : Not Answered
Chosen Option : --



Q.8 निम्नलिखित में से किस शासक को विक्रमादित्य के नाम से भी जाना जाता है?

- Ans 1. अशोक
 2. हर्षवर्द्धन
 3. चंद्रगुप्त II
 4. समुद्रगुप्त

Question ID : 630680286730
Option 1 ID : 6306801114845
Option 2 ID : 6306801114846
Option 3 ID : 6306801114844
Option 4 ID : 6306801114843
Status : Answered
Chosen Option : 3

Q.9 मई-जून 2023 में खेलो इंडिया यूनिवर्सिटी गेम्स का तीसरा संस्करण निम्नलिखित में से किस राज्य में आयोजित किया गया था?

- Ans 1. मध्य प्रदेश
 2. उत्तर प्रदेश
 3. राजस्थान
 4. महाराष्ट्र

Question ID : 630680286724
Option 1 ID : 6306801114820
Option 2 ID : 6306801114821
Option 3 ID : 6306801114819
Option 4 ID : 6306801114822
Status : Answered
Chosen Option : 2

Q.10 भारतीय महिला बैंक (BMB) का भारतीय स्टेट बैंक में विलय किस वर्ष किया गया था?

- Ans 1. 2019
 2. 2021
 3. 2017
 4. 2015

Question ID : 630680286727
Option 1 ID : 6306801114831
Option 2 ID : 6306801114834
Option 3 ID : 6306801114832
Option 4 ID : 6306801114833
Status : Not Answered
Chosen Option : --

Q.11 भारतीय AI सुपरकंप्यूटर 'AIRAWAT' कहाँ स्थापित है?

- Ans 1. सी-डैक, पुणे
 2. IISc, बैंगलुरु
 3. IIT, युवाहाटी
 4. NIT, तिरुविरापल्ली

Question ID : 630680286723
Option 1 ID : 6306801114815
Option 2 ID : 6306801114817
Option 3 ID : 6306801114818
Option 4 ID : 6306801114816
Status : Answered
Chosen Option : 1



Q.12 इक्विटास स्मॉल फाइनेंस बैंक लिमिटेड का प्रधान कार्यालय कहाँ है?

- Ans 1. हैदराबाद
 2. हुबली
 3. चेन्नई
 4. कोयंबटूर

Question ID : 630680286726
Option 1 ID : 6306801114829
Option 2 ID : 6306801114828
Option 3 ID : 6306801114830
Option 4 ID : 6306801114827
Status : Answered
Chosen Option : 3

Q.13 निम्नलिखित में से किस वर्ष में उड़िया को भारत में शास्त्रीय भाषा घोषित किया गया था?

- Ans 1. 2016
 2. 2010
 3. 2012
 4. 2014

Question ID : 630680286734
Option 1 ID : 6306801114861
Option 2 ID : 6306801114862
Option 3 ID : 6306801114859
Option 4 ID : 6306801114860
Status : Not Answered
Chosen Option : --

Q.14 निम्नलिखित में से कौन 2023 में भारतीय अर्थव्यवस्था के आठ-मूल उद्योगों में शामिल नहीं है?

- Ans 1. सीमेट
 2. उर्वरक
 3. सूचना प्रौद्योगिकी
 4. प्राकृतिक गैस

Question ID : 630680286732
Option 1 ID : 6306801114853
Option 2 ID : 6306801114851
Option 3 ID : 6306801114854
Option 4 ID : 6306801114852
Status : Answered
Chosen Option : 4

Q.15 निम्नलिखित में से किस अधिनियम में प्रांतों और रियासतों को इकाइयों के रूप में शामिल करते हुए एक अखिल भारतीय संघ की स्थापना का प्रावधान था?

- Ans 1. भारत सरकार अधिनियम 1919
 2. भारत सरकार अधिनियम 1833
 3. भारत सरकार अधिनियम 1909
 4. भारत सरकार अधिनियम 1935

Question ID : 630680286728
Option 1 ID : 6306801114838
Option 2 ID : 6306801114836
Option 3 ID : 6306801114837
Option 4 ID : 6306801114835
Status : Answered
Chosen Option : 4

Section : Quantitative Aptitude

Q.1 जॉर्ज ने अपनी बेटी लिली को बताया कि छह साल पहले, उनकी आयु उससे पांच बुना ज्यादा थी। 15 वर्ष बाद उनकी आयु, उसकी बेटी की आयु से दोगुनी होगी। उनकी वर्तमान आयु का योग कितना होगा?

Ans 1. 62

2. 51

3. 54

4. 69

Question ID : 630680286745

Option 1 ID : 6306801114903

Option 2 ID : 6306801114906

Option 3 ID : 6306801114904

Option 4 ID : 6306801114905

Status : Answered

Chosen Option : 3

Q.2 जब एक गोले की विज्या 8% बढ़ जाती है, तो गोले के पृष्ठीय क्षेत्रफल में कितने प्रतिशत की वृद्धि होती है?

Ans 1. 12.56%

2. 15.63%

3. 10.45%

4. 16.64%

Question ID : 630680286746

Option 1 ID : 6306801114910

Option 2 ID : 6306801114908

Option 3 ID : 6306801114907

Option 4 ID : 6306801114909

Status : Answered

Chosen Option : 4

Q.3 यदि 15 व्यक्ति प्रतिदिन 10 घंटे काम करके 12 दिनों में 30 खिलौने बना सकते हैं, तो 20 व्यक्ति प्रतिदिन 14 घंटे काम करके कितने दिनों में 35 खिलौने बना सकते हैं?

Ans 1. 6.5

2. 8.5

3. 7.5

4. 10.5

Question ID : 630680286742

Option 1 ID : 6306801114894

Option 2 ID : 6306801114892

Option 3 ID : 6306801114891

Option 4 ID : 6306801114893

Status : Answered

Chosen Option : 3



Q.4 पिक एंड पैक (प्रा.) लिमिटेड की बिक्री इस प्रकार है, (लाख रुपये में)।

वर्ष	कुल बिक्री	सकल लाभ	निवल लाभ
2001	459.4	158.2	45.4
2002	576.3	142.5	37.3
2003	724.7	162.3	60.2
2004	825.3	210.5	78.4

2002 में हुआ निवल लाभ 2004 की कुल बिक्री का लगभग कितना प्रतिशत है?

- Ans 1. 3.5
 2. 2.5
 3. 4.5
 4. 5.5

Question ID : 630680286743
Option 1 ID : 6306801114896
Option 2 ID : 6306801114895
Option 3 ID : 6306801114897
Option 4 ID : 6306801114898

Status : Answered
Chosen Option : 3

Q.5 An equilateral triangle of side 12 cm has its corners cut-off to form a regular hexagon. What is the area of this regular hexagon?

- Ans 1. $24\sqrt{3}$ cm²
 2. $21\sqrt{3}$ cm²
 3. $22\sqrt{3}$ cm²
 4. $25\sqrt{3}$ cm²

Question ID : 630680286749
Option 1 ID : 6306801114920
Option 2 ID : 6306801114921
Option 3 ID : 6306801114919
Option 4 ID : 6306801114922

Status : Not Answered
Chosen Option : --



Q.6 एक परीक्षा में, लड़कियों और लड़कों का उत्तीर्ण प्रतिशत क्रमशः 35% और 45% है। एक लड़के ने 685 अंक प्राप्त किये और 215 अंक से असफल हो गया। लड़कियों के लिए न्यूनतम उत्तीर्ण अंक निम्न में से कितने हैं?

- Ans 1. 780
 2. 760
 3. 700
 4. 810

Question ID : 630680286740

Option 1 ID : 6306801114885

Option 2 ID : 6306801114884

Option 3 ID : 6306801114883

Option 4 ID : 6306801114886

Status : Not Answered

Chosen Option : --

Q.7 एक दुकानदार ने लागत मूल्य से 20% अधिक मूल्य अंकित किया। यदि वह 25% की छूट देता है, तो हानि प्रतिशत कितना होगा?

- Ans 1. 12%
 2. 13%
 3. 5%
 4. 10%

Question ID : 630680286739

Option 1 ID : 6306801114881

Option 2 ID : 6306801114880

Option 3 ID : 6306801114879

Option 4 ID : 6306801114882

Status : Answered

Chosen Option : 4

Q.8 किसी वस्तु के अंकित मूल्य पर 8% और 12% की क्रमिक छूट के लिए एकल समतुल्य छूट क्या होगी?

- Ans 1. 80.96%
 2. 22.07%
 3. 19.04%
 4. 79.06%

Question ID : 630680286738

Option 1 ID : 6306801114877

Option 2 ID : 6306801114876

Option 3 ID : 6306801114875

Option 4 ID : 6306801114878

Status : Answered

Chosen Option : 3



Q.9 $\sqrt{11\sqrt{11\sqrt{11}}} = x$, then $x = ?$

Ans ✓ 1. $11^{\frac{7}{8}}$

✗ 2. $11^{\frac{8}{7}}$

✗ 3. $11^{\frac{5}{8}}$

✗ 4. $11^{\frac{8}{5}}$

Question ID : 630680286736

Option 1 ID : 6306801114868

Option 2 ID : 6306801114870

Option 3 ID : 6306801114867

Option 4 ID : 6306801114869

Status : Answered

Chosen Option : 1

Q.10 ₹564 को A, B और C के बीच $\frac{1}{3} : \frac{1}{4} : \frac{1}{5}$ के अनुपात में विभाजित किया गया था। लेकिन गलती से इसे 3 : 4 : 5 के अनुपात में विभाजित कर दिया गया। A को प्राप्त अतिरिक्त राशि (₹ में) कितनी थी?

Ans ✗ 1. 87

✗ 2. 112

✓ 3. 99

✗ 4. 123

Question ID : 630680286741

Option 1 ID : 6306801114889

Option 2 ID : 6306801114887

Option 3 ID : 6306801114888

Option 4 ID : 6306801114890

Status : Answered

Chosen Option : 3

Q.11 यदि $x + 2y + 3z = 0$, $3x + 4y + 4z = 0$, $7x + 10y + 12z = 0$, तो $x, y, z = ?$

Ans ✗ 1. 1, 1, 0

✗ 2. 0, 1, 0

✗ 3. 1, 2, 3

✓ 4. 0, 0, 0

Question ID : 630680286744

Option 1 ID : 6306801114900

Option 2 ID : 6306801114901

Option 3 ID : 6306801114899

Option 4 ID : 6306801114902

Status : Answered

Chosen Option : 4



Q.12 32 m और 25 m ऊंचाई के दो खंभे एक समतल जमीन पर खड़े हैं। यदि उनके बीचले हिस्से के बीच की दूरी 24 m है, तो उनके शीर्ष हिस्से के बीच की दूरी कितनी होगी?

- Ans 1. 25 m
 2. 22 m
 3. 23 m
 4. 21 m

Question ID : 630680286748

Option 1 ID : 6306801114915

Option 2 ID : 6306801114917

Option 3 ID : 6306801114916

Option 4 ID : 6306801114918

Status : Answered

Chosen Option : 1

Q.13 यदि $\sin\theta + \operatorname{cosec}\theta = 2$, तो $\sin^{75}\theta + \operatorname{cosec}^{75}\theta =$ का मान कितना होगा?

- Ans 1. 1
 2. 3
 3. $\frac{1}{2}$
 4. 2

Question ID : 630680286750

Option 1 ID : 6306801114924

Option 2 ID : 6306801114925

Option 3 ID : 6306801114926

Option 4 ID : 6306801114923

Status : Answered

Chosen Option : 4

Q.14 0.99 घन मीटर लोहे से लोहे की कितनी छड़ें बनाई जा सकती हैं, जिनमें से प्रत्येक की लंबाई 5 m और व्यास 2 cm हो?

- Ans 1. 389
 2. 420
 3. 630
 4. 540

Question ID : 630680286747

Option 1 ID : 6306801114911

Option 2 ID : 6306801114913

Option 3 ID : 6306801114914

Option 4 ID : 6306801114912

Status : Answered

Chosen Option : 3



Q.15 जब एक नया लड़का 24 वर्षीय लड़के की जगह लेता है तो एक कक्षा में 36 लड़कों की औसत आयु 5 महीने कम हो जाती है तो नये लड़के की आयु (वर्षों में) निम्न में से कितनी होगी?

- Ans 1. 9
 2. 8
 3. 10
 4. 12

Question ID : 630680286737

Option 1 ID : 6306801114873

Option 2 ID : 6306801114871

Option 3 ID : 6306801114872

Option 4 ID : 6306801114874

Status : Not Answered

Chosen Option : --

Section : English Language & Comprehension

Q.1 Select the most appropriate meaning of the given idiom/phrase.

Poke the bear

- Ans 1. To provoke someone powerful
 2. To assist someone in need
 3. To love someone dearly
 4. To play with a teddy bear

Question ID : 630680286758

Option 1 ID : 6306801114957

Option 2 ID : 6306801114956

Option 3 ID : 6306801114955

Option 4 ID : 6306801114958

Status : Answered

Chosen Option : 2

Q.2 Select the most appropriate ANTONYM of the given word.

Unity

- Ans 1. Peace
 2. Harmony
 3. Amity
 4. Discord

Question ID : 630680286759

Option 1 ID : 6306801114961

Option 2 ID : 6306801114959

Option 3 ID : 6306801114962

Option 4 ID : 6306801114960

Status : Answered

Chosen Option : 4



Q.3 Select the most appropriate meaning of the given idiom/phrase.

Without fail

- Ans 1. Certainly
 2. Accidentally
 3. Carefully
 4. Properly

Question ID : 630680286757
Option 1 ID : 6306801114953
Option 2 ID : 6306801114954
Option 3 ID : 6306801114951
Option 4 ID : 6306801114952
Status : Answered
Chosen Option : 1

Q.4 Select the option that expresses the given sentence in passive voice.

They are making a dam on the river.

- Ans 1. A dam was being made on the river.
 2. A dam has been made on the river.
 3. A dam is being made on the river.
 4. A dam is made on the river.

Question ID : 630680286756
Option 1 ID : 6306801114948
Option 2 ID : 6306801114947
Option 3 ID : 6306801114950
Option 4 ID : 6306801114949
Status : Answered
Chosen Option : 3

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

Liability

- Ans 1. Excess
 2. Boon
 3. Surplus
 4. Debt



Question ID : 630680286761
Option 1 ID : 6306801114969
Option 2 ID : 6306801114970
Option 3 ID : 6306801114967
Option 4 ID : 6306801114968
Status : Answered
Chosen Option : 2



Q.6 The following sentence has been split into four segments. Identify the segment that contains a grammatical error.

She waited / for her mother / until it / was getting dark.

- Ans 1. until it
 2. She waited
 3. for her mother
 4. was getting dark

Question ID : 630680286753

Option 1 ID : 6306801114937

Option 2 ID : 6306801114935

Option 3 ID : 6306801114936

Option 4 ID : 6306801114938

Status : Answered

Chosen Option : 1

Q.7 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. The city shares a unique relationship with water.
B. Geological evidence also proves that Kashmir was once a vast lake, and this is also part of the many narratives on Kashmir.
C. Water bodies have played a huge role in its expansion and development.
D. Stand on top of Shankaracharya hill in Srinagar overlooking the city, and you can tell that the centre of Srinagar city is Dal Lake.

- Ans 1. CDAB
 2. DACB
 3. ACDB
 4. BACD

Question ID : 630680286752

Option 1 ID : 6306801114933

Option 2 ID : 6306801114934

Option 3 ID : 6306801114931

Option 4 ID : 6306801114932

Status : Answered

Chosen Option : 3

Q.8 Select the option that expresses the given sentence in reported speech.

He said, "Alas! I have lost all my savings."

- Ans 1. He exclaimed sadly that he had lost all his savings.
 2. He exclaimed sadly that I have lost all his savings.
 3. He exclaimed sadly that I had lost all my savings.
 4. He said alas, he had lost all his savings.

Question ID : 630680286755

Option 1 ID : 6306801114944

Option 2 ID : 6306801114945

Option 3 ID : 6306801114943

Option 4 ID : 6306801114946

Status : Answered

Chosen Option : 1



Q.9 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. Further, the water from the melted ice will eventually drown most coastal cities.
- B. Apparently, it is not the heat coming in through the atmosphere that creates global warming.
- C. This results in warming up and melting down of the ice in the poles, sending the sea temperature up.
- D. It is also because the heat stays trapped on earth as a result of layers of carbon that prevent the heat from escaping.

Ans 1. BDAC
 2. BDCA
 3. BCAD
 4. BACD

Question ID : 630680286751
Option 1 ID : 6306801114927
Option 2 ID : 6306801114929
Option 3 ID : 6306801114930
Option 4 ID : 6306801114928

Status : Answered
Chosen Option : 2

Q.10 The following sentence has been split into four segments. Identify the segment that contains a grammatical error.

She will go / to bed when she / will finish / her work.

Ans 1. She will go
 2. to bed when she
 3. will finish
 4. her work

Question ID : 630680286754
Option 1 ID : 6306801114939
Option 2 ID : 6306801114940
Option 3 ID : 6306801114941
Option 4 ID : 6306801114942

Status : Answered
Chosen Option : 3

Q.11 Select the most appropriate ANTONYM of the given word.

Pungent

Ans 1. Acidic
 2. Bland
 3. Acrid
 4. Poignant

Question ID : 630680286760
Option 1 ID : 6306801114966
Option 2 ID : 6306801114963
Option 3 ID : 6306801114965
Option 4 ID : 6306801114964

Status : Not Answered
Chosen Option : --



Comprehension:

Read the given passage and answer the questions that follow.

As Nguyen Van Ninh needles his chopsticks through a steaming bowl of Vietnam's famous noodle soup, he knows it could be spiked with formaldehyde. But the thought of slurping up the same chemical used to preserve corpses isn't enough to deter him. "I think if we don't see those chemicals being put in the food with our own eyes, then we can just smack our lips and pretend that there are no chemicals in the food," he said, devouring a 20-cent bowl of 'pho' on a busy Hanoi sidewalk. While the discovery of tainted imports from China has shocked

Westerners, food safety has long been a problem in much of Asia, where enforcement is lax and food poisoning deaths are not unusual.

Hot weather, lack of refrigeration and demand for the cheap street food drive vendors and producers to find inexpensive—and often dangerous—ways to preserve their products.

Formaldehyde has long been used to lengthen the shelf life of rice noodles and tofu in some Asian countries, even though it can cause liver, nerve and kidney damage. The chemical, often used in embalming, was found a few years ago in 7 of 10 pho noodle factories in Hanoi.

Borax, found in everything from detergent to fibreglass, is also commonly used to preserve fish and meats in Indonesia and elsewhere. Farmers often spray their produce with banned pesticides such as DDT.

"The people who do this want to make money. And if they're stupid and greedy, this is a bad combination," said Gerald Moy, a food safety expert at the World Health Organisation in Geneva. Fish containing pufferfish toxins, drug-laced frozen eel and juice spiked with harmful dyes were among other unsafe products shipped to the US. Diethylene glycol, a sweet-tasting thickening agent also used in antifreeze, has been blamed for the deaths of at least 51 people in Panama after the chemical was imported from China and mixed with cough syrup and other medicines.

SubQuestion No : 12

Q.12 Identify the thickening agent used in antifreeze.

- Ans 1. Borax
 2. Formaldehyde
 3. DDT
 4. Diethylene glycol

Question ID : **630680286763**

Option 1 ID : **6306801114971**

Option 2 ID : **6306801114973**

Option 3 ID : **6306801114974**

Option 4 ID : **6306801114972**

Status : **Answered**

Chosen Option : **2**



Comprehension:

Read the given passage and answer the questions that follow.

As Nguyen Van Ninh needles his chopsticks through a steaming bowl of Vietnam's famous noodle soup, he knows it could be spiked with formaldehyde. But the thought of slurping up the same chemical used to preserve corpses isn't enough to deter him. "I think if we don't see those chemicals being put in the food with our own eyes, then we can just smack our lips and pretend that there are no chemicals in the food," he said, devouring a 20-cent bowl of 'pho' on a busy Hanoi sidewalk. While the discovery of tainted imports from China has shocked

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Formaldehyde has long been used to lengthen the shelf life of rice noodles and tofu in some Asian countries, even though it can cause liver, nerve and kidney damage. The chemical, often used in embalming, was found a few years ago in 7 of 10 pho noodle factories in Hanoi.

Borax, found in everything from detergent to fibreglass, is also commonly used to preserve fish and meats in Indonesia and elsewhere. Farmers often spray their produce with banned pesticides such as DDT.

"The people who do this want to make money. And if they're stupid and greedy, this is a bad combination," said Gerald Moy, a food safety expert at the World Health Organisation in Geneva. Fish containing pufferfish toxins, drug-laced frozen eel and juice spiked with harmful dyes were among other unsafe products shipped to the US. Diethylene glycol, a sweet-tasting thickening agent also used in antifreeze, has been blamed for the deaths of at least 51 people in Panama after the chemical was imported from China and mixed with cough syrup and other medicines.

SubQuestion No : 13

Q.13 Which of the following is NOT caused by formaldehyde?

Ans 1. Lung damage

2. Kidney damage

3. Liver damage

4. Nerve damage

Question ID : **630680286764**

Option 1 ID : **6306801114977**

Option 2 ID : **6306801114978**

Option 3 ID : **6306801114976**

Option 4 ID : **6306801114975**

Status : **Not Answered**

Chosen Option : --



Comprehension:

Read the given passage and answer the questions that follow.

As Nguyen Van Ninh needles his chopsticks through a steaming bowl of Vietnam's famous noodle soup, he knows it could be spiked with formaldehyde. But the thought of slurping up the same chemical used to preserve corpses isn't enough to deter him. "I think if we don't see those chemicals being put in the food with our own eyes, then we can just smack our lips and pretend that there are no chemicals in the food," he said, devouring a 20-cent bowl of 'pho' on a busy Hanoi sidewalk. While the discovery of tainted imports from China has shocked

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SubQuestion No : 14

Q.14 Select the meaning of the word 'spiked' as used in the passage.

Ans 1. Arranged in stiff tufts

2. A drug added to a drink

3. Having sharp projections

4. Pierced with a sharp object

Question ID : **630680286766**

Option 1 ID : **6306801114986**

Option 2 ID : **6306801114985**

Option 3 ID : **6306801114983**

Option 4 ID : **6306801114984**

Status : **Not Answered**

Chosen Option : --



Comprehension:

Read the given passage and answer the questions that follow.

As Nguyen Van Ninh needles his chopsticks through a steaming bowl of Vietnam's famous noodle soup, he knows it could be spiked with formaldehyde. But the thought of slurping up the same chemical used to preserve corpses isn't enough to deter him. "I think if we don't see those chemicals being put in the food with our own eyes, then we can just smack our lips and pretend that there are no chemicals in the food," he said, devouring a 20-cent bowl of 'pho' on a busy Hanoi sidewalk. While the discovery of tainted imports from China has shocked Westerners, food safety has long been a problem in much of Asia, where enforcement is lax and food poisoning deaths are not unusual.

Hot weather, lack of refrigeration and demand for the cheap street food drive vendors and producers to find inexpensive—and often dangerous—ways to preserve their products. Formaldehyde has long been used to lengthen the shelf life of rice noodles and tofu in some Asian countries, even though it can cause liver, nerve and kidney damage. The chemical, often used in embalming, was found a few years ago in 7 of 10 pho noodle factories in Hanoi. Borax, found in everything from detergent to fibreglass, is also commonly used to preserve fish and meats in Indonesia and elsewhere. Farmers often spray their produce with banned pesticides such as DDT.

"The people who do this want to make money. And if they're stupid and greedy, this is a bad combination," said Gerald Moy, a food safety expert at the World Health Organisation in Geneva. Fish containing pufferfish toxins, drug-laced frozen eel and juice spiked with harmful dyes were among other unsafe products shipped to the US. Diethylene glycol, a sweet-tasting thickening agent also used in antifreeze, has been blamed for the deaths of at least 51 people in Panama after the chemical was imported from China and mixed with cough syrup and other medicines.

SubQuestion No : 15**Q.15 Select the INCORRECT statement.**

- Ans 1. We can safely consume cheap street food.
 2. Imports from China have been tainted with harmful chemicals.
 3. Hot weather leads to spoilage of food.
 4. Food safety laws in Asia are not strict.

Question ID : 630680286765
Option 1 ID : 6306801114979
Option 2 ID : 6306801114982
Option 3 ID : 6306801114980
Option 4 ID : 6306801114981
Status : Not Answered
Chosen Option : --

Section : Domain Knowledge

Q.1 A coil having a self-inductance of 5 H is coupled with a coil having self-inductance of 20 H in such a way that the mutual inductance is 10 H. Find the coefficient of coupling between the coils.

- Ans 1. 1.0
 2. 0.75
 3. 0.25
 4. 0.5

Question ID : 630680286776
Option 1 ID : 6306801115026
Option 2 ID : 6306801115025
Option 3 ID : 6306801115023
Option 4 ID : 6306801115024
Status : Answered
Chosen Option : 1



Q.2 The magnetic reluctance is measured in:

- Ans 1. AT
 2. AT/Wb
 3. Henry
 4. Wb/AT

Question ID : 630680286774
Option 1 ID : 6306801115015
Option 2 ID : 6306801115016
Option 3 ID : 6306801115018
Option 4 ID : 6306801115017
Status : Answered
Chosen Option : 2

Q.3 In electrical load estimation, which of the following loads is assumed to have a rating of 60 W?

- Ans 1. Refrigerator
 2. Fluorescent lamp
 3. Power socket outlet
 4. Air-conditioner

Question ID : 630680286800
Option 1 ID : 6306801115119
Option 2 ID : 6306801115122
Option 3 ID : 6306801115120
Option 4 ID : 6306801115121
Status : Answered
Chosen Option : 2

Q.4 A 20 F capacitor is connected in series with an 80 F capacitor. Find the total capacitance of the series connection.

- Ans 1. 100 F
 2. 30 F
 3. 50 F
 4. 16 F



Question ID : 630680286769
Option 1 ID : 6306801114998
Option 2 ID : 6306801114996
Option 3 ID : 6306801114997
Option 4 ID : 6306801114995
Status : Answered
Chosen Option : 4



Q.5 Among the following options, _____ is an example of non-fusion type of welding.

- Ans 1. metal arc welding
 2. forge welding
 3. carbon arc welding
 4. plasma welding

Question ID : 630680286804

Option 1 ID : 6306801115136

Option 2 ID : 6306801115138

Option 3 ID : 6306801115135

Option 4 ID : 6306801115137

Status : Answered

Chosen Option : 2

Q.6 Which of the following is NOT a common artificial agent to reduce the resistivity of soil surrounding the earth electrode?

- Ans 1. Sodium silicate
 2. Sodium carbonate
 3. Calcium chloride
 4. Sodium chloride

Question ID : 630680286801

Option 1 ID : 6306801115124

Option 2 ID : 6306801115126

Option 3 ID : 6306801115125

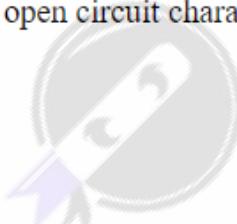
Option 4 ID : 6306801115123

Status : Answered

Chosen Option : 2

Q.7 In DC generator, the graph between the terminal voltage and load current at a constant speed is called _____.

- Ans 1. external characteristic
 2. internal characteristic
 3. magnetisation characteristic
 4. open circuit characteristic



Question ID : 630680286788

Option 1 ID : 6306801115071

Option 2 ID : 6306801115072

Option 3 ID : 6306801115073

Option 4 ID : 6306801115074

Status : Answered

Chosen Option : 1



Q.8 In split phase induction motor, the starting torque is _____.

- Ans 1. 50 to 100% of full load torque
 2. 100 to 125% of full load torque
 3. 25 to 50% of full load torque
 4. 150 to 200% of full load torque

Question ID : 630680286791

Option 1 ID : 6306801115084

Option 2 ID : 6306801115085

Option 3 ID : 6306801115083

Option 4 ID : 6306801115086

Status : Answered

Chosen Option : 3

Q.9 Find the voltage transformation ratio of a transformer having 80 primary turns and 400 secondary turns.

- Ans 1. 0.4
 2. 0.8
 3. 25
 4. 5

Question ID : 630680286786

Option 1 ID : 6306801115064

Option 2 ID : 6306801115066

Option 3 ID : 6306801115063

Option 4 ID : 6306801115065

Status : Answered

Chosen Option : 4

Q.10 A sinusoidal signal is expressed by the equation: $v(t) = 100 \sin 314t$. Find the peak value of the signal.

- Ans 1. 141 V
 2. 70 V
 3. 200 V
 4. 100 V



Question ID : 630680286778

Option 1 ID : 6306801115034

Option 2 ID : 6306801115033

Option 3 ID : 6306801115032

Option 4 ID : 6306801115031

Status : Answered

Chosen Option : 4



Q.11 Which of the following is NOT correct for common collector configuration of BJT?

- Ans
- ✓ 1. High voltage gain
 - ✗ 2. Low output impedance
 - ✗ 3. High current gain
 - ✗ 4. High input impedance

Question ID : 630680286805

Option 1 ID : 6306801115142

Option 2 ID : 6306801115140

Option 3 ID : 6306801115141

Option 4 ID : 6306801115139

Status : Answered

Chosen Option : 1

Q.12 Which of the following is INCORRECT for permanent magnet moving iron instruments?

- Ans
- ✓ 1. It is used only for DC.
 - ✗ 2. Accuracy is less than PMMC instruments.
 - ✗ 3. It has simple and robust construction.
 - ✗ 4. The scale is not uniform.

Question ID : 630680286785

Option 1 ID : 6306801115062

Option 2 ID : 6306801115060

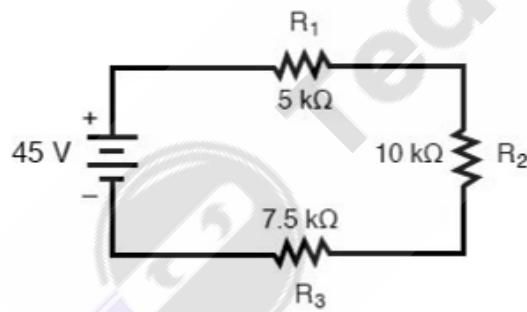
Option 3 ID : 6306801115061

Option 4 ID : 6306801115059

Status : Answered

Chosen Option : 1

Q.13 Find the voltage drop across the R_1 in the following circuit:



- Ans
- ✗ 1. 15 V
 - ✗ 2. 30 V
 - ✗ 3. 25 V
 - ✓ 4. 10 V

Question ID : 630680286770

Option 1 ID : 6306801115000

Option 2 ID : 6306801115002

Option 3 ID : 6306801115001

Option 4 ID : 6306801114999

Status : Answered

Chosen Option : 4



Q.14 जल विद्युत संयंत्र, निम्नलिखित में से किस प्राचल पर आप विद्युत संयंत्र की तुलना में लाभप्रद नहीं है?

- Ans 1. स्वच्छता
2. प्रचालन लागत
3. प्रारंभिक लागत
4. इंधन परिवहन की लागत

Question ID : 630680286799

Option 1 ID : 6306801115115

Option 2 ID : 6306801115118

Option 3 ID : 6306801115116

Option 4 ID : 6306801115117

Status : Answered

Chosen Option : 3

Q.15 In a 3-phase, 6-pole star-connected alternator, the stator has 80 slots and 12 conductors per slot. Find the number of stator conductors per phase.

- Ans 1. 160
2. 240
3. 400
4. 320

Question ID : 630680286795

Option 1 ID : 6306801115099

Option 2 ID : 6306801115100

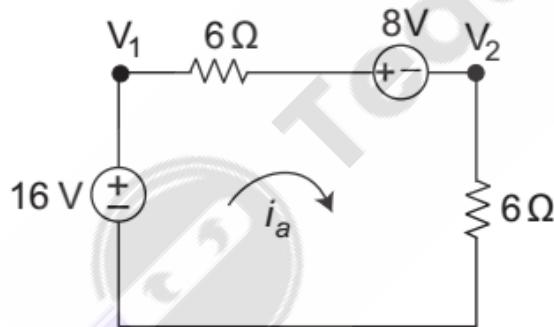
Option 3 ID : 6306801115102

Option 4 ID : 6306801115101

Status : Answered

Chosen Option : 4

Q.16 Find the voltage V_2 in the following circuit:



- Ans 1. 8 V
2. 4 V
3. 16 V
4. 12 V

Question ID : 630680286773

Option 1 ID : 6306801115012

Option 2 ID : 6306801115011

Option 3 ID : 6306801115014

Option 4 ID : 6306801115013

Status : Answered

Chosen Option : 2



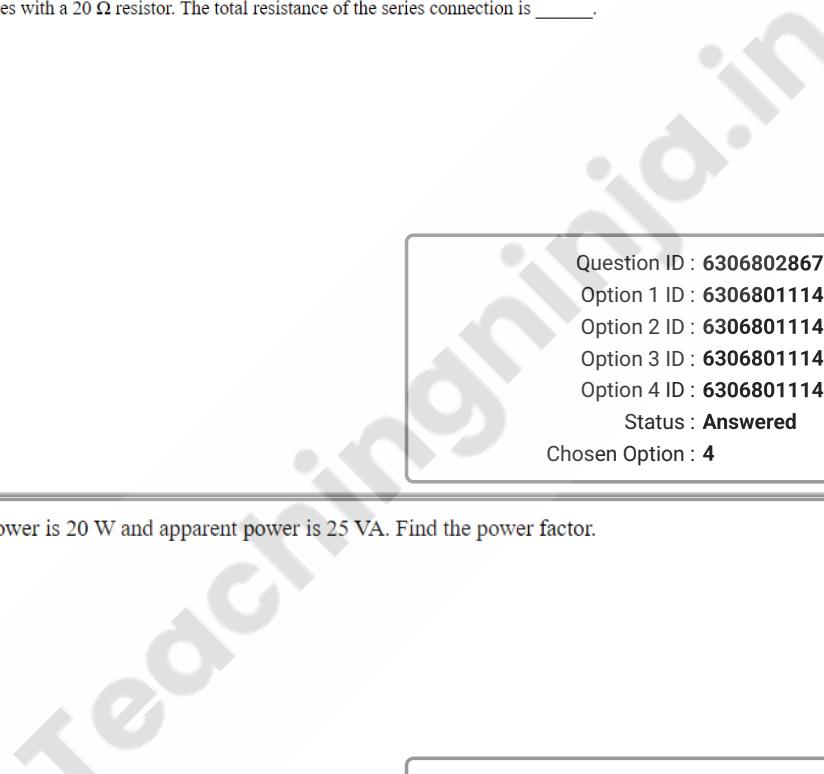
Q.17 Calculate the power consumed by a $25\ \Omega$ resistor when a current of $20\ \text{mA}$ flows through it.

- Ans 1. $100\ \text{mW}$
 2. $10\ \text{mW}$
 3. $1000\ \text{mW}$
 4. $1\ \text{mW}$

Question ID : 630680286768
Option 1 ID : 6306801114993
Option 2 ID : 6306801114992
Option 3 ID : 6306801114994
Option 4 ID : 6306801114991

Status : Answered

Chosen Option : 2

Q.18 A $10\ \Omega$ resistor is connected in series with a $20\ \Omega$ resistor. The total resistance of the series connection is _____.


- Ans 1. $15\ \Omega$
 2. $10\ \Omega$
 3. $20\ \Omega$
 4. $30\ \Omega$

Question ID : 630680286767
Option 1 ID : 6306801114989
Option 2 ID : 6306801114987
Option 3 ID : 6306801114988
Option 4 ID : 6306801114990

Status : Answered

Chosen Option : 4

Q.19 In an AC circuit, the active power is $20\ \text{W}$ and apparent power is $25\ \text{VA}$. Find the power factor.

- Ans 1. 0.4
 2. 0.6
 3. 0.9
 4. 0.8
- 

Question ID : 630680286780
Option 1 ID : 6306801115039
Option 2 ID : 6306801115040
Option 3 ID : 6306801115042
Option 4 ID : 6306801115041

Status : Answered

Chosen Option : 4



Q.20 In a common base connection, current amplification factor is 0.9. if the emitter current is 5 mA, determine the value of the base current.

- Ans 1. 4.5 mA
 2. 2.5 mA
 3. 0.5 mA
 4. 5.5 mA

Question ID : 630680286806
Option 1 ID : 6306801115143
Option 2 ID : 6306801115146
Option 3 ID : 6306801115144
Option 4 ID : 6306801115145

Status : Answered

Chosen Option : 3

Q.21 The self-inductance of a coil is _____.

- Ans 1. inversely proportional to the square of the number of turns in the coil
 2. inversely proportional to the number of turns in the coil
 3. directly proportional to the square of the number of turns in the coil
 4. directly proportional to the number of turns in the coil

Question ID : 630680286777
Option 1 ID : 6306801115030
Option 2 ID : 6306801115029
Option 3 ID : 6306801115028
Option 4 ID : 6306801115027

Status : Answered

Chosen Option : 3

Q.22 A current transformer has 2 turns in primary and 200 turns in secondary. Find the turns ratio.

- Ans 1. 100
 2. 25
 3. 200
 4. 50

Question ID : 630680286784
Option 1 ID : 6306801115056
Option 2 ID : 6306801115057
Option 3 ID : 6306801115058
Option 4 ID : 6306801115055

Status : Answered

Chosen Option : 1



Q.23 In coal fired thermal power plant, ball mill is used for _____.

- Ans 1. steam generation
 2. coal pulverisation
 3. coal purification
 4. ash handling

Question ID : 630680286798
Option 1 ID : 6306801115114
Option 2 ID : 6306801115112
Option 3 ID : 6306801115111
Option 4 ID : 6306801115113

Status : Answered
Chosen Option : 2

Q.24 $7.5 \text{ V} = \text{_____ mV.}$

- Ans 1. 75
 2. 7500
 3. 750
 4. 75000

Question ID : 630680286782
Option 1 ID : 6306801115047
Option 2 ID : 6306801115049
Option 3 ID : 6306801115048
Option 4 ID : 6306801115050

Status : Answered
Chosen Option : 2

Q.25 Which of the following statements is correct with reference to the nuclear power plant?

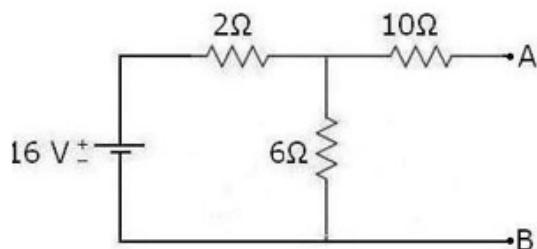
- Ans 1. Fuel transportation cost is very high due to the large quantity.
 2. Specially trained personnel are required for plant operation.
 3. The by-products can be disposed-off directly in the atmosphere.
 4. The capital cost is very less as compared to other plants with similar capacity.

Question ID : 630680286796
Option 1 ID : 6306801115105
Option 2 ID : 6306801115104
Option 3 ID : 6306801115103
Option 4 ID : 6306801115106

Status : Answered
Chosen Option : 2



Q.26 Find the voltage between the terminals 'A' and 'B':



- Ans 1. 12 V
 2. 4 V
 3. 8 V
 4. 16 V

Question ID : 630680286772
Option 1 ID : 6306801115009
Option 2 ID : 6306801115007
Option 3 ID : 6306801115008
Option 4 ID : 6306801115010
Status : Answered
Chosen Option : 1

Q.27 A sinusoidal alternating current of 100 Hz has a maximum value of 200 A. Find the angular frequency.

- Ans 1. 942 rad/sec
 2. 314 rad/sec
 3. 1256 rad/sec
 4. 628 rad/sec

Question ID : 630680286781
Option 1 ID : 6306801115045
Option 2 ID : 6306801115043
Option 3 ID : 6306801115046
Option 4 ID : 6306801115044
Status : Answered
Chosen Option : 4

Q.28 Which of the following method is most suitable for the surface hardening of steel?

- Ans 1. Induction heating
 2. Dielectric heating
 3. Infrared heating
 4. Resistance heating

Question ID : 630680286803
Option 1 ID : 6306801115132
Option 2 ID : 6306801115131
Option 3 ID : 6306801115134
Option 4 ID : 6306801115133
Status : Answered
Chosen Option : 1



Q.29 For a given stepper motor, the speed of rotation depends on the _____.

- Ans 1. load
 2. supply current
 3. supply voltage
 4. stepping frequency

Question ID : 630680286792

Option 1 ID : 6306801115088

Option 2 ID : 6306801115090

Option 3 ID : 6306801115089

Option 4 ID : 6306801115087

Status : Answered

Chosen Option : 4

Q.30 Find the speed of the 4-pole synchronous motor if the supply frequency is 25 Hz.

- Ans 1. 375 rpm
 2. 250 rpm
 3. 750 rpm
 4. 150 rpm

Question ID : 630680286794

Option 1 ID : 6306801115097

Option 2 ID : 6306801115096

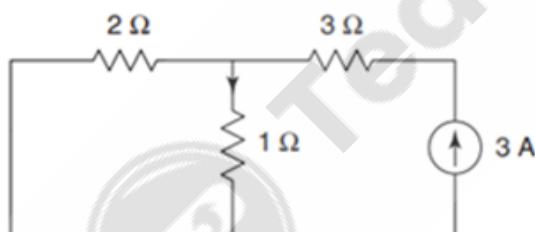
Option 3 ID : 6306801115098

Option 4 ID : 6306801115095

Status : Answered

Chosen Option : 3

Q.31 Find the current in 1Ω resistor in the following circuit:



- Ans 1. 3 A
 2. 4 A
 3. 2 A
 4. 1 A

Question ID : 630680286771

Option 1 ID : 6306801115005

Option 2 ID : 6306801115006

Option 3 ID : 6306801115004

Option 4 ID : 6306801115003

Status : Answered

Chosen Option : 3

Q.32 Which of the following is NOT an application of split-phase induction motor?

- Ans 1. Food mixers
 2. Washing machines
 3. Small drills
 4. Heavy cranes

Question ID : 630680286790
Option 1 ID : 6306801115080
Option 2 ID : 6306801115082
Option 3 ID : 6306801115079
Option 4 ID : 6306801115081
Status : Answered
Chosen Option : 4

Q.33 Which of the following has the lowest value of thermal conductivity?

- Ans 1. Silver
 2. Steel
 3. Aluminium
 4. Copper

Question ID : 630680286802
Option 1 ID : 6306801115127
Option 2 ID : 6306801115128
Option 3 ID : 6306801115130
Option 4 ID : 6306801115129
Status : Answered
Chosen Option : 2

Q.34 Which of the following is correct for synchronous motor?

- Ans 1. It is self-starting.
 2. It operates at lagging power factors only.
 3. It runs either at synchronous speed or not at all.
 4. It operates at leading power factor only.



Question ID : 630680286793
Option 1 ID : 6306801115091
Option 2 ID : 6306801115094
Option 3 ID : 6306801115092
Option 4 ID : 6306801115093
Status : Answered
Chosen Option : 3

Q.35 The sensitivity of a voltmeter using 0 to 8 mA meter movement is _____.

- Ans 1. $125 \Omega / V$
 2. $375 \Omega / V$
 3. $250 \Omega / V$
 4. $500 \Omega / V$

Question ID : 630680286783
Option 1 ID : 6306801115051
Option 2 ID : 6306801115053
Option 3 ID : 6306801115052
Option 4 ID : 6306801115054

Status : Answered

Chosen Option : 1

Q.36 A transmission line terminated in its characteristic impedance is called _____.

- Ans 1. ground line
 2. service line
 3. finite line
 4. flat line

Question ID : 630680286797
Option 1 ID : 6306801115110
Option 2 ID : 6306801115108
Option 3 ID : 6306801115107
Option 4 ID : 6306801115109

Status : Answered

Chosen Option : 4

Q.37 In a DC motor, windage losses are considered under the _____.

- Ans 1. stray load losses
 2. magnetic losses
 3. electrical losses
 4. mechanical losses

Question ID : 630680286789
Option 1 ID : 6306801115078
Option 2 ID : 6306801115076
Option 3 ID : 6306801115075
Option 4 ID : 6306801115077

Status : Answered

Chosen Option : 4



Q.38 For a system with 230 V AC, 5 A current and a power factor of 0.5, the active power is _____.

- Ans 1. 375 W
 2. 275 W
 3. 575 W
 4. 475 W

Question ID : 630680286779

Option 1 ID : 6306801115037

Option 2 ID : 6306801115038

Option 3 ID : 6306801115035

Option 4 ID : 6306801115036

Status : Answered

Chosen Option : 3

Q.39 A 3-phase, 6 pole, 50 Hz induction motor has a slip of 1% at no load. Find the no-load speed.

- Ans 1. 1510 rpm
 2. 990 rpm
 3. 1490 rpm
 4. 1010 rpm

Question ID : 630680286787

Option 1 ID : 6306801115070

Option 2 ID : 6306801115068

Option 3 ID : 6306801115069

Option 4 ID : 6306801115067

Status : Answered

Chosen Option : 2

Q.40 In a magnetic circuit, the minimum value of coefficient of coupling is:

- Ans 1. 0.1
 2. 0.5
 3. 0
 4. 1.0



Question ID : 630680286775

Option 1 ID : 6306801115020

Option 2 ID : 6306801115021

Option 3 ID : 6306801115019

Option 4 ID : 6306801115022

Status : Answered

Chosen Option : 4

