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**31 July 2023**



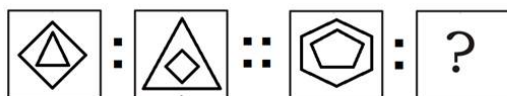


केंद्रीय विद्युत अनुसंधान संस्थान  
(विद्युत मंत्रालय, भारत सरकार के अधीन स्वायत्त सोसाइटी)  
**Central Power Research Institute**  
(An Autonomous Society Under Ministry of Power, Govt. Of India)

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

✗ 1.



✗ 2.



✓ 3.



✗ 4.



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-जोड़े 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



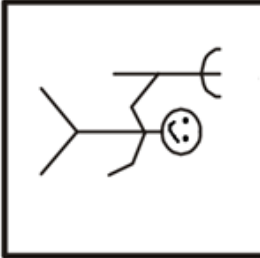
Q.3 चार आकृतियाँ दी गई हैं, जिनमें से तीन किसी रूप में समान हैं और एक भिन्न है। जो भिन्न है, उसका चयन करें।

Ans

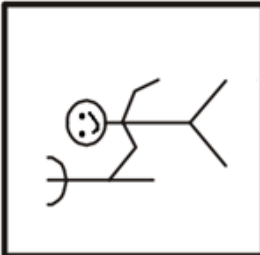
✗ 1.



✗ 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

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

कथन:

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

निष्कर्ष:

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

Ans

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

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

✗ 3. केवल निष्कर्ष II अनुसरण करता है।

✗ 4. केवल निष्कर्ष I 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 श्रृंखला 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 ध्यानपूर्वक पढ़ें। यह मानते हुए कि कथनों में दी गई जानकारी सत्य है, भले ही यह सामान्यतः ज्ञात तथ्यों से भिन्न प्रतीत होती हो, निर्णय लें कि दिए गए निष्कर्षों में से कौन सा निष्कर्ष कथनों का तार्किक रूप से अनुसरण करता है।

कथन:

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

निष्कर्ष:

- I. कुछ बसें, टेबल नहीं हैं।
- II. कुछ कारें, घड़ियाँ हैं।

Ans

✗ 1. न तो निष्कर्ष I और न ही II अनुसरण करता है।

✓ 2. केवल निष्कर्ष I अनुसरण करता है।

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

✗ 4. केवल निष्कर्ष II अनुसरण करता है।

Question ID : 630680286719  
Option 1 ID : 6306801114801  
Option 2 ID : 6306801114799  
Option 3 ID : 6306801114802  
Option 4 ID : 6306801114800

Status : Answered

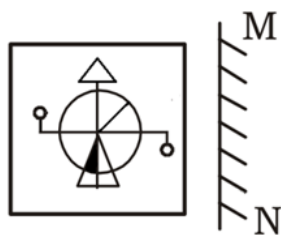
Chosen Option : 2





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

Question Figure :



Ans

✗ 1.



✓ 2.



✗ 3.



✗ 4.



Question ID : 630680286712  
Option 1 ID : 6306801114774  
Option 2 ID : 6306801114772  
Option 3 ID : 6306801114773  
Option 4 ID : 6306801114771  
Status : Answered  
Chosen Option : 2

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

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

- 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

- ✗ 1.
- ✗ 2.
- ✗ 3.
- ✓ 4.

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 मुंह करके बैठे हैं। Q और N के बीच केवल L बैठा है। M, N के ठीक बायीं ओर है। Q, O के निकटतम बायीं ओर है। 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 ऋण 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 कोंकणी को बढ़ावा देने के लिए गोवा कोंकणी अकादमी (गोवा एकेडेमी ऑफ लेटर्स फॉर कोंकणी) 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 स्ववायर (वर्तमान में बेनॉय-बादल-दिनेश बाग के नाम से जाना जाता है) कहाँ 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 खेले 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, बेंगलुरु
  - ☐ 3. IIT, गुवाहाटी
  - ☐ 4. NIT, तिरुचिरापल्ली

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. सीमेंट
  - ☒ 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 गुना 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 त्रिज्या 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 खिलाड़ी बना सकते हैं, तो 20 व्यक्ति प्रतिदिन 14 घंटे काम करके कितने दिनों में 35 खिलाड़ी 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 पिंक 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.  $24\sqrt{3} \text{ cm}^2$
  - ☒ 2.  $21\sqrt{3} \text{ cm}^2$
  - ☒ 3.  $22\sqrt{3} \text{ cm}^2$
  - ☒ 4.  $25\sqrt{3} \text{ cm}^2$

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

$$\sqrt{11\sqrt{11\sqrt{11}}}=x, \text{ then } x = ?$$

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 ऊँचाई के दो खंभे एक समतल जमीन पर खड़े हैं। यदि उनके निचले 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  $\sin^7\theta + \operatorname{cosec}^7\theta =$  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 Westerners, food safety has long been a problem in much of Asia, where enforcement is lax and food poisoning deaths are not unusual.

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

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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?

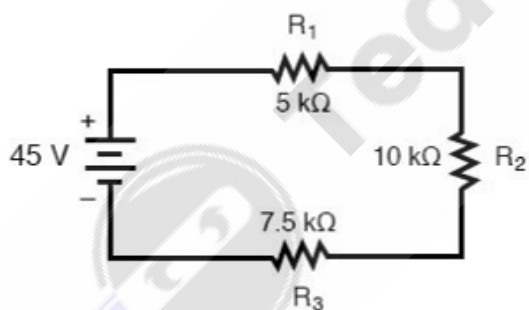
- Ans
- ✓ 1. It is used only for DC.
  - ✗ 2. Accuracy is less than PMMC instruments.
  - ✗ 3. It has simple and robust construction.
  - ✗ 4. The scale is not uniform.

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 भाप विद्युत संयंत्र की तुलना में लाभप्रद नहीं है?

- Ans
- ☒ 1. स्वच्छता
  - ☒ 2. प्रचालन लागत
  - ☒ 3. प्रारंभिक लागत
  - ☒ 4. ईंधन 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

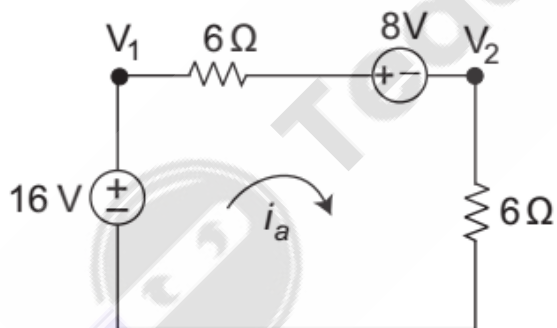
Option 3 ID : 6306801115102

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 mA flows through it.

- Ans
- ☒ 1. 100 mW
  - ☒ 2. 10 mW
  - ☒ 3. 1000 mW
  - ☒ 4. 1 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 W and apparent power is 25 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

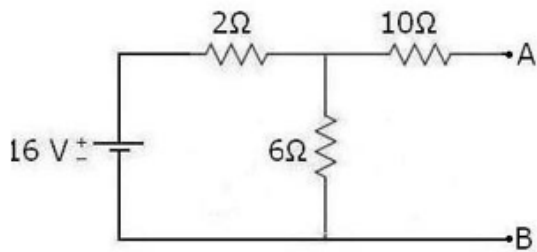
Q.25 Which of the following statements is correct with reference to the nuclear power plant?

- 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

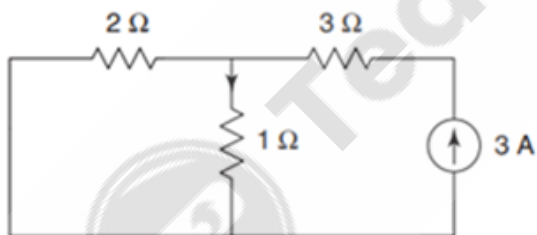
Question ID : 630680286792  
Option 1 ID : 6306801115088  
Option 2 ID : 6306801115090  
Option 3 ID : 6306801115089  
Option 4 ID : 6306801115087  
Status : Answered  
Chosen Option : 4

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  $1\ \Omega$  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 powers 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