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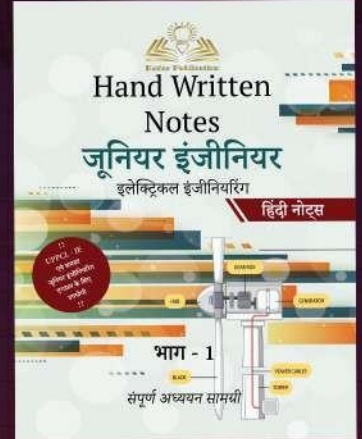
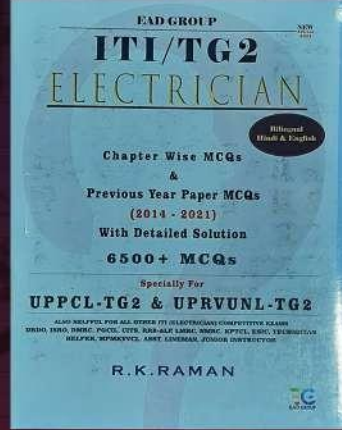
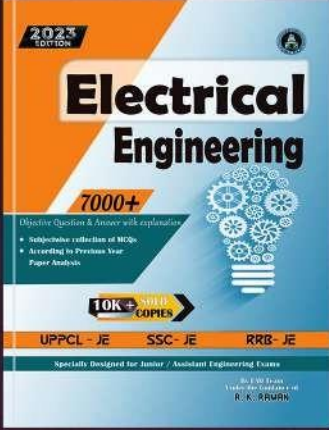
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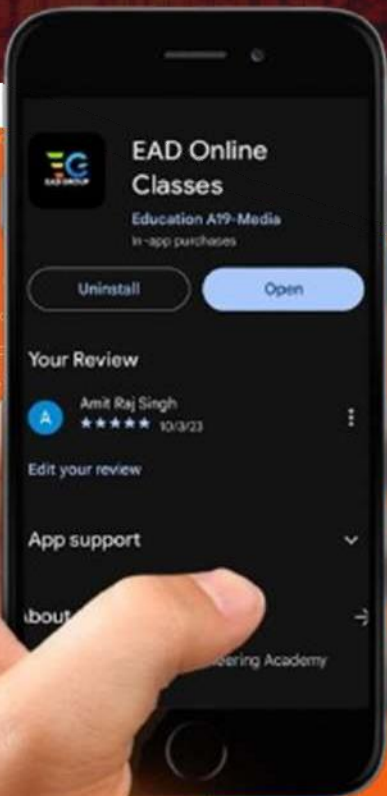
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Raman sir
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Test Date	05/04/2022
Test Time :	2:00 PM - 5:00 PM
Subject	Junior Engineer (Electrical)

Section : General Awareness

Q.1 In which of the following states is the Karma dance NOT performed?

- Ans
- A. Madhya Pradesh
 - B. Andhra Pradesh
 - C. Chhattisgarh
 - D. Odisha

Question ID : 1034359388

Status : Not Answered

Chosen Option : --

Q.2 भारतीय अर्थव्यवस्था के संदर्भ में उदारीकरण से आप क्या समझते हैं?

- Ans
- A. बाजार और आर्थिक संस्थानों से अनावश्यक सरकारी नियंत्रण को कम करना
 - B. एक नागरिक केंद्रित आर्थिक संरचना जो कल्याण को अधिकतम प्राथमिकता देती है।
 - C. अर्थव्यवस्था में मुद्रा आपूर्ति को बढ़ाना
 - D. सार्वजनिक वित्तीय संस्थानों का राष्ट्रीयकरण

Question ID : 1034359392

Status : Not Answered

Chosen Option : --

Q.3 निम्नलिखित में से किसे फरवरी 2022 में नए राष्ट्रीय ई-गवर्नेंस डिवीजन के प्रमुख के रूप में नियुक्त किया गया था?

- Ans
- A. नितिन परांजपे
 - B. राकेश शर्मा
 - C. संजीव सान्याल
 - D. अभिषेक सिंह

Question ID : 1034359407

Status : Not Answered

Chosen Option : --

Q.4 In which of the following years was the Protection of Human Rights Act, 1993 amended?

- Ans A. 2021
 B. 2019
 C. 2020
 D. 2018

Question ID : 1034359413

Status : Answered

Chosen Option : B

Q.5 भारत के संविधान का निम्नलिखित में से कौन सा अनुच्छेद बताता है कि भारत राज्यों का एक संघ होगा?

- Ans A. अनुच्छेद 1
 B. अनुच्छेद 4
 C. अनुच्छेद 2
 D. अनुच्छेद 3

Question ID : 1034359410

Status : Answered

Chosen Option : B

Q.6 A Green strategic partnership was established between India and _____ n September 2020 with the aim of promoting cooperation in green technologies and the management of natural resources such as groundwater.

- Ans A. Norway
 B. Sweden
 C. Denmark
 D. Netherlands

Question ID : 1034359396

Status : Not Answered

Chosen Option : -

Q.7 The Kabir Granthavali is associated with the Dadupanth in _____.

- Ans A. Uttar Pradesh
 B. Madhya Pradesh
 C. Gujarat
 D. Rajasthan

Question ID : 1034359402

Status : Answered

Chosen Option : B

Q.8 Hemananda Biswal, who passed away in February 2022, was the first tribal chief minister of which of the following states?

- Ans A. Assam
 B. Mizoram
 C. Nagaland
 D. Odisha

Question ID : 1034359408
Status : Answered
Chosen Option : A

Q.9 पहले सोने के सिक्के पहली शताब्दी CE के आसपास _____ द्वारा जारी किए गए थे।

- Ans A. गुप्त वंश
 B. चोल वंश
 C. चेर वंश
 D. कुषाण वंश

Question ID : 1034359405
Status : Answered
Chosen Option : A

Q.10 निम्नलिखित में से किस फसल को सितंबर 2021 तक भारत सरकार द्वारा न्यूनतम समर्थन मूल्य में शामिल नहीं किया गया है?

- Ans A. गेहूं
 B. रागी
 C. कपास
 D. काबुली चना

Question ID : 1034359393
Status : Answered
Chosen Option : D

Q.11 भारत सरकार अधिनियम, 1935 ने बर्मा को भारत से अलग कर दिया था और _____ और सिंध दो नए प्रांत बनाए गए थे।

- Ans A. पंजाब
 B. दिल्ली
 C. असम
 D. ओडिशा

Question ID : 1034359412
Status : Answered
Chosen Option : A

Q.12 दूल्हादेव (दूलादेव) मंदिर निम्नलिखित में से किस राज्य में स्थित है?

- Ans
- A. उत्तर प्रदेश
 - B. बिहार
 - C. राजस्थान
 - D. मध्य प्रदेश

Question ID : 1034359390

Status : Answered

Chosen Option : C

Q.13 Which of the following countries topped the medal table at the Winter Olympics held in Beijing in 2022?

- Ans
- A. Germany
 - B. India
 - C. China
 - D. Norway

Question ID : 1034359414

Status : Answered

Chosen Option : A

Q.14 Who among the following players won the ESPN Cricinfo 'Test Batting' award 2021?

- Ans
- A. Kane Williamson
 - B. Ollie Robinson
 - C. Rishabh Pant
 - D. Kyle Jamieson

Question ID : 1034359416

Status : Not Answered

Chosen Option : -

Q.15 Which of the following chemical is used in formation of ice cream?

- Ans
- A. Sodium Chloride
 - B. Potassium Bicarbonate
 - C. Calcium Carbonate
 - D. Magnesium Bromate

Question ID : 1034359397

Status : Not Answered

Chosen Option : -

Q.16 As per Budget 2022-23, States will be allowed a fiscal deficit of _____ of Gross State Domestic Product.

- Ans A. 12%
 B. 4%
 C. 15%
 D. 8%

Question ID : 1034359394

Status : Answered

Chosen Option : A

Q.17 Who authored the book titled 'A History of Sriniketan: Rabindranath Tagore's Pioneering Work in Rural Construction'?

- Ans A. Priyam Gandhi Mody
 B. Sagarika Ghosh
 C. Navdeep Singh Gill
 D. Uma Das Gupta

Question ID : 1034359409

Status : Not Answered

Chosen Option : -

Q.18 भारतीय राज्य अरुणाचल प्रदेश की न्याशी जनजाति द्वारा पृथ्वी पर सभी देवताओं का स्वागत करने और उनका आशीर्वाद लेने के लिए कौन सा त्योहार मनाया जाता है?

- Ans A. न्योकुम
 B. सोलुंग
 C. लोसर
 D. मोपिन

Question ID : 1034359391

Status : Not Answered

Chosen Option : -

Q.19 Who among the following won the FIFA Club World Cup 2021 final?

- Ans A. Chelsea
 B. Liverpool
 C. Palmeiras
 D. Manchester United

Question ID : 1034359417

Status : Not Answered

Chosen Option : -

Q.20 Article 233A inserted by the _____ Amendment Act validated the appointments of and judgements etc. delivered by certain district judges.

- Ans A. Twentieth
 B. Fiftieth
 C. Thirtieth
 D. Fortieth

Question ID : 1034359411

Status : Answered

Chosen Option : B

Q.21 At the end of which year did the Congress held its annual session at Lahore and passed the resolution of Purna Swaraj?

- Ans A. 1929
 B. 1923
 C. 1925
 D. 1921

Question ID : 1034359404

Status : Answered

Chosen Option : B

Q.22 निम्नलिखित में से कौन एक स्वतंत्रता सेनानी और गांधीवादी सामाजिक कार्यकर्ता थे, जिन्हें भारत सरकार द्वारा 2022 में पद्म श्री पुरस्कार से सम्मानित किया गया था?

- Ans A. कनकलता बरुआ
 B. अरुणा आसफ अली
 C. सुचेता कृपलानी
 D. शकुंतला चौधरी

Question ID : 1034359406

Status : Not Answered

Chosen Option : -

Q.23 निम्नलिखित में से कौन 1966 में संयुक्त राष्ट्र महासभा में प्रस्तुति देने वाले पहले भारतीय संगीतकार थे?

- Ans A. एम.एस. सुब्बुलक्ष्मी
 B. लता मंगेशकर
 C. अन्नपूर्णा देवी
 D. के.एस. चित्रा

Question ID : 1034359389

Status : Not Answered

Chosen Option : -

Q.24 पुरानी जलोढ़ मिट्टी में नई जलोढ़ मिट्टी की तुलना में _____ की उच्च सांद्रता होती है।

- Ans A. छोटी ईटों
 B. कांकेर पिंडों
 C. लावा प्रवाहों
 D. रेत के कणों

Question ID : 1034359398

Status : Not Answered

Chosen Option : -

Question ID : 1034359395

Status : Not Answered

Chosen Option : -

Q.26 India has how many neighbouring countries?

- Ans A. Seven
 B. Six
 C. Nine
 D. Eight

Question ID : 1034359399

Status : Answered

Chosen Option : A

Q.27 As per Census 2011, approximately how much percentage of the population of India is below 14 years of age?

- Ans A. 29.5%
 B. 47.6%
 C. 34.4%
 D. 53.2%

Question ID : 1034359400

Status : Not Answered

Chosen Option : -

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Q.28 Who among the following won the gold medal in the 55 kg weight category at Singapore Weightlifting International 2022?

- Ans A. Tori Gallegos
 B. Jessica Sewastenko
 C. Mirabai Chanu
 D. Elly Cassandra

Question ID : 1034359415
Status : Answered
Chosen Option : C

Q.29 Approximately how much percentage of Earth's surface is covered with oceans?

- Ans A. 71%
 B. 67%
 C. 84%
 D. 58%

Question ID : 1034359401
Status : Answered
Chosen Option : B

Q.30 स्थायी बंदोबस्ती लागू करने के दौरान बर्दवान के राजा _____ थे।

- Ans A. उदय चंद मेहताब
 B. मेहताब चंद
 C. तेजचंद
 D. बिजय चंद मेहताब

Question ID : 1034359403
Status : Not Answered
Chosen Option : -

Section : Reasoning

Q.1 In a certain code language, THURSDAY is written as ZBETSVIU. How will DAUGHTER be written in that language?

- Ans A. USFHIVAE
 B. RETHGUAD
 C. SFUIHVBE
 D. RFTIHUAE

Question ID : 1034359427
Status : Answered
Chosen Option : C

Q.2 चार संख्या-त्रिक दिए गए हैं, जिनमें से तीन किसी न किसी तरह एकसमान हैं और एक असंगत है। वह असंगत संख्या-त्रिक चुनें।

- Ans A. (9, 5, 125)
 B. (5, 3, 45)
 C. (7, 5, 105)
 D. (3, 7, 63)

Question ID :
1034359437

Status : Not
Attempted and
Marked For Review
Chosen Option : -

Q.3 Select the correct mirror image of the given combination when the mirror is placed at line PQ as shown.



- Ans A. NOTIFICATION
 B. NOITACIFITON
 C. NOITACIFITON
 D. NOITACIFITON

Question ID : 1034359447

Status : Answered

Chosen Option : B

Q.4 दो युगलों वाले छह व्यक्तियों के परिवार में, D, E की बहन है और F की पुत्री है। G की माँ H, E की पत्नी है और J की बहू है। E की बहन की माँ का विवाह F से हुआ है। F का J से क्या संबंध है?

- Ans A. ससुर
 B. साला
 C. पत्नी
 D. पति

Question ID : 1034359429

Status : Answered

Chosen Option : D

Q.5 Select the number from among the given options that can replace the question mark (?) in the following series.

17, 18, 27, 52, 101, 182, ?

- Ans A. 330
 B. 305
 C. 303
 D. 350

Question ID : 1034359435

Status : Not Attempted and
Marked For Review

Chosen Option : -

Q.6 Select the correct option that indicates the arrangement of the given words in the order in which they appear in an English dictionary.

1. Umbrella
2. Unconditional
3. Ubiquitous
4. Unfortunate
5. University

- Ans A. 3, 2, 4, 5, 1
 B. 3, 1, 4, 2, 5
 C. 3, 1, 2, 4, 5
 D. 3, 2, 1, 5, 4

Question ID : 1034359420

Status : Answered

Chosen Option : C

Q.7 उस शब्द-युग्म का चयन करें जिसमें दोनों शब्दों के मध्य का संबंध, शेष तीनों शब्द-युग्मों के दोनों शब्दों के मध्य के संबंध से अलग है।

- Ans A. कीट विज्ञान : कीट
 B. भूकंप विज्ञान : भूकंप
 C. पैथोलॉजी : रोग
 D. शंख विज्ञान : पर्वत

Question ID : 1034359423

Status : Answered

Chosen Option : D

Q.8 उस विकल्प का चयन करें जिसमें शब्दों के बीच वही संबंध है जो शब्दों के निम्नांकित शब्द-युग्म के शब्दों के बीच है।

- Ans A. स्वीकार करें : अस्वीकार करें
 B. छल : ईमानदारी
 C. विशाल : मैमथ
 D. प्रतिकूलता : समृद्धि

Question ID : 1034359426

Status : Answered

Chosen Option : C

Q.9 उस विकल्प का चयन कीजिए, जिसका तीसरे शब्द के साथ वही संबंध है जो दूसरे शब्द का पहले शब्द के साथ है।

रूस : मॉस्को :: नॉर्वे : _____।

- Ans A. ओटावा
 B. मैड्रिड
 C. नैरोबी
 D. ओस्लो

Question ID : 1034359425

Status : Answered

Chosen Option : A

Q.10 Identify the number that does NOT belong to the following series.1,
6, 10, 20, 47, 159, 741.

- Ans A. 741
 B. 20
 C. 47
 D. 159

Question ID : 1034359436

Status : Not Attempted and
Marked For Review

Chosen Option : -

Q.11 Select the option that is related to the fourth number in the same way as the first number is
related to the second number and fifth number is related to sixth number.
12 : 576 :: ? : 1944 :: 6 : 72

- Ans A. 20
 B. 14
 C. 16
 D. 18

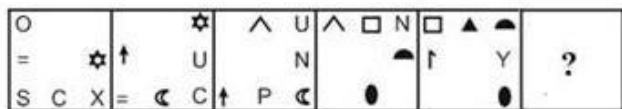
Question ID : 1034359438

Status : Not Attempted and
Marked For Review

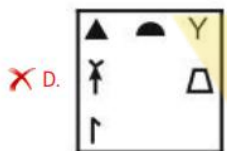
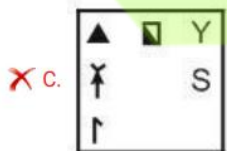
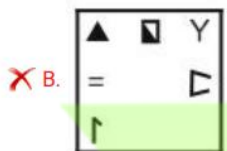
Chosen Option : -

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



Ans



Question ID : 1034359444

Status : Not Attempted and Marked For Review

Chosen Option : -

Q.13 Read the given statements and conclusions carefully. Assuming that the information given in the statements is true, even if it appears to be at variance with commonly known facts, decide which of the given conclusions logically follow(s) from the statements. Statements:

Some colonies are villages.

Some villages are cities.

Conclusions:

I. No city is a colony.

II. All villages are colonies.

III. Some cities are colonies.

Ans ✓ A. Either conclusion I or III follows.

✗ B. Conclusions I, II and III follow.

✗ C. Only conclusion II follows.

✗ D. Only conclusion I follows.

Question ID : 1034359432

Status : Answered

Chosen Option : B

Q.14 Identify the letter-cluster that does NOT belong to the following series.
LTCQ, PPFN, TLIK, XHLI, BDOE, FZRB

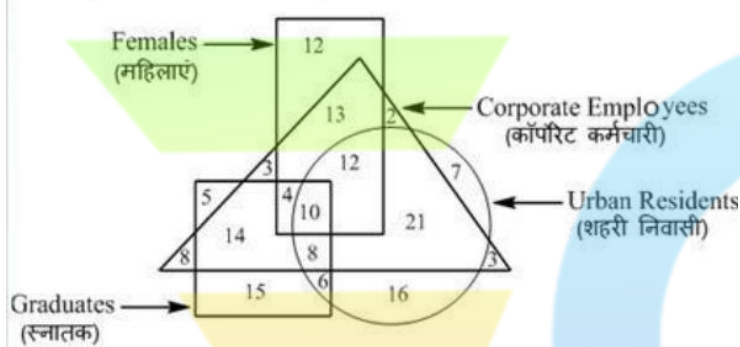
- Ans A. XHLI
 B. BDOE
 C. TLIK
 D. FZRB

Question ID : 1034359419

Status : Answered

Chosen Option : A

Q.15 निम्नलिखित आरेख में, विभिन्न आकृतियों व्यक्तियों की विभिन्न श्रेणियों को दर्शाती हैं और विनिर्दिष्ट संख्याएँ व्यक्तियों की संख्या दर्शाती हैं।



कितने स्नातक कॉर्पोरेट कर्मचारी या तो महिलाएं हैं या शहरी निवासी हैं, लेकिन दोनों नहीं हैं?

- Ans A. 12
 B. 14
 C. 8
 D. 24

Question ID : 1034359440

Status : Answered

Chosen Option : A

Q.16 अर्चना अपने घर से चलना शुरू करती है और बस स्टॉप तक पहुंचने के लिए पूर्व की ओर 36 m चलती है। बस स्टॉप से वह बाएं मुड़ती है और पार्किंग क्षेत्र तक पहुंचने के लिए 20 m चलती है और फिर वह दाएं मुड़ती है और बगीचे तक पहुंचने के लिए 24 m चलती है और फिर से दाएं मुड़ती है और 26 m चलती है और फिर से दाएं मुड़ती है और मंदिर पहुंचती है। यदि यह दिया गया है कि उसका घर उस स्थान के उत्तर में है जहां वह अपनी यात्रा समाप्त करती है, तो उसके घर और मंदिर के बीच की दूरी क्या है?

- Ans A. 4 m
 B. 3 m
 C. 5 m
 D. 6 m

Question ID : 1034359442

Status : Answered

Chosen Option : D

Q.17 चार शब्द दिए गए हैं, जिनमें से तीन किसी तरह से एकसमान हैं और एक असंगत है। उस असंगत शब्द का चयन करें।

- Ans A. चमेली
 B. डैफोडिल
 C. लीची
 D. जपापुष्प

Question ID : 1034359421
Status : Answered
Chosen Option : C

Q.18 Select the letter-cluster from among the given options that can replace the question mark(?) in the following series.
DOVE, GLYB, JIBY, MFEV, ?

- Ans A. PIHY
 B. PCHS
 C. PHIY
 D. JCHY

Question ID : 1034359418
Status : Answered
Chosen Option : B

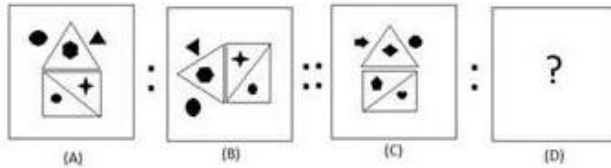
Q.19 चार अक्षर-समूह दिए गए हैं, जिनमें से तीन किसी तरह से एकसमान हैं और एक असंगत है। उस असंगत अक्षर-समूह का चयन करें।

- Ans A. MOST : SHLL
 B. RAIN : MZRQ
 C. POUR : QLFO
 D. STEM : LGVR

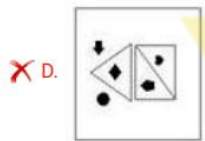
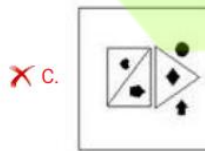
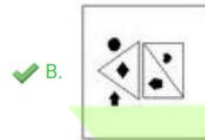
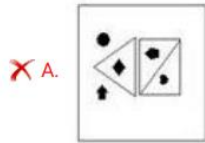
Question ID : 1034359422
Status : Answered
Chosen Option : C

EAD GROUP

Q.20 Select the option that is related to figure C in the same way as figure B is related to figure A.



Ans



Question ID : 1034359445

Status : Answered

Chosen Option : B

Q.21 A shopping mall has 8 branches in a city. Branch B7 is 5 km north of Branch B5. Branch B2 is 8 km east of Branch B7. Branch B3 is 8 km west of Branch B8. Branch B2 is 14 km north of Branch B8. Branch B4 is 6 km west of Branch B6. Branch B1 is 5 km north of Branch B4. Branch B5 is 12 km east of Branch B1. What is the direction of branch B4 with respect to branch B7?

- Ans
- A. North
 - B. South
 - C. South-west
 - D. South-east

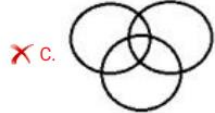
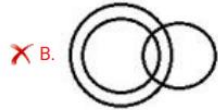
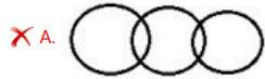
Question ID : 1034359441

Status : Not Attempted and Marked For Review

Chosen Option : --

Q.22 उस वेन आरेख का चयन करें जो निम्नलिखित वर्गों के बीच के संबंध को सर्वोत्तम रूप से दर्शाता है।
प्राकृत संख्याएं, अपरिमिय संख्याएं, वास्तविक संख्याएं

Ans



Question ID : 1034359439

Status : Answered

Chosen Option : B

Q.23 In a certain code language, 'CONSIDER' is coded as '387'. How will 'FRICTION' be coded in that language?

Ans A. 346

B. 336

C. 366

D. 356

Question ID : 1034359428

Status : Not Attempted and Marked For Review

Chosen Option : -

Q.24 Eight persons, designated alphabetically from A to H, are sitting around a square table. Two persons are sitting on each side of the table, and all are facing the centre. B is facing H, who is to the left of D. C is facing G who is sitting adjacent to E. A is facing F who is to the immediate right of C. Who are the two persons between C and D?

Ans A. B and F

B. E and F

C. A and H

D. F and H

Question ID : 1034359431

Status : Not Answered

Chosen Option : -

Q.25 दिए गए कथन पर विचार करें और तय करें कि दी गई धारणाओं में से कौन सी धारणा/धारणाएं कथन में निहित है/हैं।

कथन:

जब तक कोई छात्र बारहवीं कक्षा की परीक्षा में 95% से अधिक अंक प्राप्त नहीं करता है, तब तक उसके रॉबिन्स कॉलेज में प्रवेश की संभावना कम होती है।

धारणाएं:

I. रॉबिन्स कॉलेज में 95% से अधिक अंक प्राप्त करने वाले छात्रों के प्रवेश की लगभग गारंटी है।

II. रॉबिन्स कॉलेज में प्रवेश पाना मुश्किल है।

III. मेधावी छात्र रॉबिन्स कॉलेज में दाखिला लेना पसंद करते हैं।

Ans A. I और III दोनों निहित हैं।

B. I, II और III निहित हैं।

C. II और III दोनों निहित हैं।

D. I और II दोनों निहित हैं।

Question ID : 1034359433

Status : Answered

Chosen Option : B

Q.26 Aditya started from his tuition point, walks 17 m towards the north to reach the bakery then takes a right turn and walks 12 m to reach the bookstall after that he takes right turn again, walks 27 m and stops at his apartment. Roshan also starts from the same tuition point, walks 18 m towards the south to reach the library, then takes a left turn and walks 18 m before stopping at his apartment. What is the shortest distance between Roshan's apartment and Aditya's apartment?

Ans A. 10 m

B. 8 m

C. 12 m

D. 15 m

Question ID : 1034359443

Status : Not Answered

Chosen Option : --

Q.27 Read the given statements and conclusions carefully. Assuming that the information given in the statements is true, even if it appears to be at variance with commonly known facts, decide which of the given conclusions logically follow(s) from the statements. Statements:

Some islands are countries.

All states are islands.

All countries are peninsulas.

Conclusions:

I. Some states are countries.

II. Some peninsulas are islands

III. No state is a peninsula.

Ans A. Both conclusions I and II follow.

B. Both conclusions II and III follow.

C. Only conclusion II follows.

D. Only conclusion I follows.

Question ID : 1034359434

Status : Answered

Chosen Option : B

Q.28 Select the option that is related to the third term in the same way as the second term is related to the first term.

TRIP : IPRT :: MELT : _____

- Ans A. ELMT
 B. TELM
 C. TLME
 D. ELTM

Question ID : 1034359424

Status : Answered

Chosen Option : C

Q.29 Mr. Vipin Chakravarthi, sports trainer of a high school has to select three students out of six shortlisted students, Ankit, Kavya, Rahul, Rupali, Pavani and Sanchit, to represent the school in interschool (under 16) sports competition. Ankit, Rahul and Sanchit are boys and Kavya, Pavani and Rupali are girls.

There are following conditions for the selection of the students:

- (i) There should be at least one boy and one girl in the team.
(ii) If Ankit is selected, Rahul cannot be selected.
(iii) Neither Sanchit nor Pavani can be selected unless the other is also selected.
(iv) If Kavya is selected, Rupali must also be selected and vice versa.

Which of the following teams meet the required conditions?

- Ans A. Rahul, Kavya and Pavani
 B. Ankit, Pavani and Rupali
 C. Sanchit, Kavya and Pavani
 D. Sanchit, Pavani and Ankit

Question ID : 1034359430

Status : Not Answered

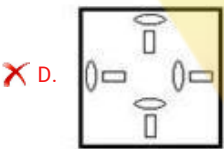
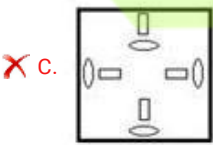
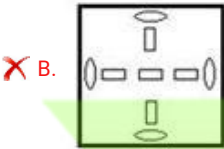
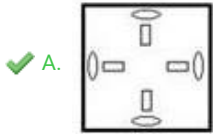
Chosen Option : -

EAD GROUP

Q.30 The sequence of folding a piece of paper and the manner in which the folded paper has been cut is shown in the following figures. How would this paper look when unfolded?



Ans



Question ID : 1034359446

Status : Answered

Chosen Option : A

Section : General Engineering

Q.1 निम्नलिखित में से कौन सा इम्पेलर के ब्लेडों के दिक्-विन्यास का एक प्रकार नहीं है?

✗ A. पीछे की ओर मुड़े हुए

✗ B. आगे की ओर मुड़े हुए

✓ C. वृत्ताकार

✗ D. अरीय

Question ID : 1034359476

Status : Answered

Chosen Option : C

Q.2 For a BJT with common base connection, the emitter current is 1 mA. If the emitter circuit is open, the collector current is 50 μ A. Find the total collector current, if $\alpha = 0.92$.

- Ans A. 1.05 mA
 B. 0.92 mA
 C. 0.87 mA
 D. 0.97 mA

Question ID : 1034359467

Status : Answered

Chosen Option : B

Q.3 निम्नलिखित में से मिट्टी का वह कौन सा प्रकार है जिसे निलंबन से बहते पानी में निक्षेपित किया जाता है?

- Ans A. हिमनदीय मिट्टी
 B. कछारीय मिट्टी
 C. सरोवरी मिट्टी
 D. मिश्रित मिट्टी

Question ID :
1034359451

Status : Not Answered

Chosen Option : -

Q.4 नोज़ल के विस्तारक (diffuser) में, गतिज ऊर्जा को _____ ऊर्जा में परिवर्तित किया जाता है।

- Ans A. अवरुद्ध
 B. प्रवाह
 C. स्थितिज
 D. दाब

Question ID : 1034359474

Status : Answered

Chosen Option : D

Q.5 In magnetic circuits, the unit of specific reluctance is _____.

- Ans A. Wb/m²
 B. Wb/A
 C. metre/henry
 D. henry/metre

Question ID : 1034359460

Status : Answered

Chosen Option : A

Q.6 A 100:5 current transformer is used in conjunction with a 5 A ammeter. If the later reads 3.5A, find the line current.

- Ans
- A. 7 A
 - B. 0.175 A
 - C. 1.75 A
 - D. 70 A

Question ID : 1034359464

Status : Answered

Chosen Option : D

Q.7 सिंचाई की निम्नलिखित में से किस विधि में वाष्पन हानि कम होती है?

- Ans
- A. फील्ड चैनल विधि से निर्बाध फ्लडिंग (Free flooding from field channels method)
 - B. समोच्च पार्श्विकों द्वारा फ्लडिंग (Flooding by contour laterals)
 - C. फरो विधि (Furrow method)
 - D. ज़िगज़ैग विधि (Zigzag method)

Question ID : 1034359453

Status : Not Answered

Chosen Option : -

Q.8 Which of the following is NOT a mode of heat transfer?

- Ans
- A. Radiation
 - B. Convection
 - C. Conduction
 - D. Vibration

Question ID : 1034359475

Status : Answered

Chosen Option : D

Q.9 For $v_1(t) = 50 \sin(\omega t + 10^\circ)$ and $v_2(t) = 20 \sin(\omega t + 50^\circ)$, which of the following statements is true?

- Ans
- A. V_2 lags V_1
 - B. V_2 and V_1 are in phase
 - C. V_1 leads V_2
 - D. V_2 leads V_1

Question ID : 1034359462

Status : Answered

Chosen Option : D

Q.10 Apart from chromium, stainless steels have _____ as their major alloying element.

- Ans A. nickel
 B. manganese
 C. molybdenum
 D. radium

Question ID : 1034359477
Status : Not Answered
Chosen Option : -

Q.11 इमारती पत्थरों के गुणों के संबंध में निम्नलिखित में से कौन सा कथन सही नहीं है?

- Ans A. पॉलिश किए जाने पर संगमरमर और ग्रेनाइट अच्छी दिखावट देते हैं
 B. आमतौर पर घने पत्थर होते हैं जो प्रकृति में मजबूत होते हैं।
 C. भारतीय मानक कोड सभी इमारती पत्थरों के लिए न्यूनतम संदलन सामर्थ्य 1.5 N/mm^2 की अनुशंसा करता है।
 D. सजातीय वितरण वाले महीन दाने वाले पत्थर आकर्षक लगते हैं, और इसलिए इनका उपयोग नक्काशी के लिए किया जाता है।

Question ID : 1034359448
Status : Not Answered
Chosen Option : -

Q.12 Capillary tubes and throttling valves are types of _____.

- Ans A. leakage restriction devices
 B. heat generation devices
 C. evaporation devices
 D. expansion devices

Question ID : 1034359472
Status : Answered
Chosen Option : A

Q.13 An alternating current is given by the expression $i(t) = 60 \sin 314t$. Calculate the frequency.

- Ans A. 500 Hz
 B. 25 Hz
 C. 50 Hz
 D. 100 Hz

Question ID : 1034359461
Status : Answered
Chosen Option : C

Q.14 निम्नलिखित में से कौन सी कार्य की निम्नलिखित मद के लिए माप की सही इकाई है? नींव और प्लिंथ में ईंट कार्य

- Ans
- A. वर्ग मीटर
 - B. संख्या
 - C. रनिंग मीटर
 - D. घन मीटर

Question ID : 1034359449

Status : Answered

Chosen Option : D

Q.15 तापमान के साथ तरल पदार्थों की श्यानता की भिन्नता से संबंधित निम्नलिखित कथनों पर विचार करें और सही विकल्प का चयन करें।

कथन A: तापमान में वृद्धि के साथ तरल पदार्थों की श्यानता कम हो जाती है।

कथन B: तापमान में वृद्धि के साथ गैसों की श्यानता कम हो जाती है।

- Ans
- A. कथन A सही है और B गलत है।
 - B. कथन B सही है और A गलत है।
 - C. दोनों कथन गलत हैं।
 - D. दोनों कथन सही हैं।

Question ID : 1034359452

Status : Answered

Chosen Option : C

Q.16 The direction of the natural process is defined by _____.

- Ans
- A. second law of thermodynamics
 - B. zeroth law of thermodynamics
 - C. first law of thermodynamics
 - D. third law of thermodynamics

Question ID : 1034359471

Status : Answered

Chosen Option : A

Q.17 Which of the following is NOT an energy transport mechanism?

- Ans
- A. Mass flow
 - B. Work
 - C. Heat
 - D. Fluid pressure

Question ID : 1034359470

Status : Answered

Chosen Option : D

Q.18 शुद्ध पदार्थों के संबंध में निम्न में से कौन सा कथन सही नहीं है?

- Ans A. पूर्वानुमेय उत्पादों के निर्माण के लिए शुद्ध पदार्थ सामान्यतः किसी भी रासायनिक अभिक्रिया में भाग नहीं लेते हैं।
- B. इन पदार्थों का संघटन मुख्यतः नियत अथवा एकसमान होता है।
- C. इन पदार्थों के क्वथनांक और गलनांक नियत होते हैं।
- D. शुद्ध पदार्थों की प्रकृति अधिकांशतः समांगी होती है, उनमें केवल एक ही प्रकार के अणु या परमाणु होते हैं।

Question ID : 1034359469

Status : Not Answered

Chosen Option : -

Q.19 निम्नलिखित में से किस प्रकार का कंक्रीट बेहतर दृढ़ता गुण प्रदर्शित करता है और श्रांति लोड के अधीन संरचनाओं में उपयोग किया जा सकता है?

- Ans A. प्लेन सीमेंट कंक्रीट
- B. फाइबर प्रबलित कंक्रीट
- C. हल्का कंक्रीट
- D. स्व-सघनन कंक्रीट

Question ID : 1034359456

Status : Not Answered

Chosen Option : -

Q.20 _____ एक राजमार्ग का अनुप्रस्थ-परिच्छेदीय अवयव है जो एक सुनम्य कुट्टिमों के दानेदार आधार कोर्स को पार्श्व परिरोधन प्रदान करता है, जो कुट्टिम के कोर और शोल्डर के मध्य में प्रदान किया जाता है।

- Ans A. कर्ब (Kerb)
- B. कैंबर (Camber)
- C. वाहन पथ (Carriage way)
- D. गार्ड रेल (Guard rail)

Question ID : 1034359454

Status : Not Answered

Chosen Option : -

Q.21 Which of the following is NOT an example of a discharge lamp?

- Ans A. Fluorescent lamp
- B. Mercury vapour lamp
- C. Tungsten filament lamp
- D. Neon-gas lamp

Question ID : 1034359466

Status : Answered

Chosen Option : A

Q.22 The COP of a Carnot heat pump working between 27°C and 327°C is _____.

- Ans A. 2.0
 B. 1.0
 C. 1.5
 D. 0.5

Question ID : 1034359473
Status : Not Answered
Chosen Option : -

Q.23 Which of the following is NOT a valid advantage of moving iron instruments?

- Ans A. Uniform scale
 B. High operating torque
 C. Low cost
 D. Can be used for AC as well as DC measurements

Question ID : 1034359463
Status : Answered
Chosen Option : A

Q.24 Which of the following I beam sections is heavy in weight for the same depth of beam?

- Ans A. ISHB
 B. ISMB
 C. ISNB
 D. ISTB

Question ID : 1034359457
Status : Not Answered
Chosen Option : -

Q.25 What is the use of open cross staff in chain surveying? Ans

- A. To set out points of equal elevation on a chain line
 B. To set out offset lines at right angles to a chain line
 C. To find the reduced level (RL) at the required point on a chain line
 D. To find the direction of a line with respect to true north

Question ID : 1034359450
Status : Not Answered
Chosen Option : -

Q.26 Which of the following material CANNOT be used as an insulator?

- Ans A. Rubber
 B. Copper
 C. Mica
 D. Glass

Question ID : 1034359458
Status : Answered
Chosen Option : B

Q.27 A 100 Ω resistor and a 25 Ω resistor are connected in parallel. What will be the effective resistance of the parallel connection?

- Ans A. 25 Ω
 B. 20 Ω
 C. 125 Ω
 D. 12.5 Ω

Question ID : 1034359459

Status : Answered

Chosen Option : B

Q.28 भौतिक विज्ञान में, बलों के अधीन किसी पिंड की विश्रामावस्था या गति का अध्ययन क्या कहलाता है?

- Ans A. अभियांत्रिकी प्रयोग
 B. अभियांत्रिकी प्रक्रिया
 C. अभियांत्रिकी आरेख
 D. अभियांत्रिकी विश्लेषण

Question ID : 1034359468

Status : Not Answered

Chosen Option : -

Q.29 As per IS 10500:2012 (drinking water specifications), the permissible limit for the colour in the absence of alternate source is ____ .

- Ans A. 50 Hazen units
 B. 25 Hazen units
 C. 5 Hazen units
 D. 15 Hazen units

Question ID : 1034359455

Status : Not Answered

Chosen Option : -

Q.30 For a power plant, the ratio of the maximum generator demand to the generator capacity is called ____ .

- Ans A. load factor
 B. diversity factor
 C. demand factor
 D. utilization factor

Question ID : 1034359465

Status : Answered

Chosen Option : C

Q.1 When a delta network is converted into an equivalent star network, all three resistors are found to have the same value as $330\ \Omega$. What will be the value of the three resistors in the delta network?

- Ans
- A. $220\ \Omega, 220\ \Omega, 220\ \Omega$
 - B. $330\ \Omega, 330\ \Omega, 330\ \Omega$
 - C. $110\ \Omega, 110\ \Omega, 110\ \Omega$
 - D. $990\ \Omega, 990\ \Omega, 990\ \Omega$

Question ID : 1034359487

Status : Answered

Chosen Option : D

Q.2 The capacitor start capacitor run motor is NOT suitable for ____ .

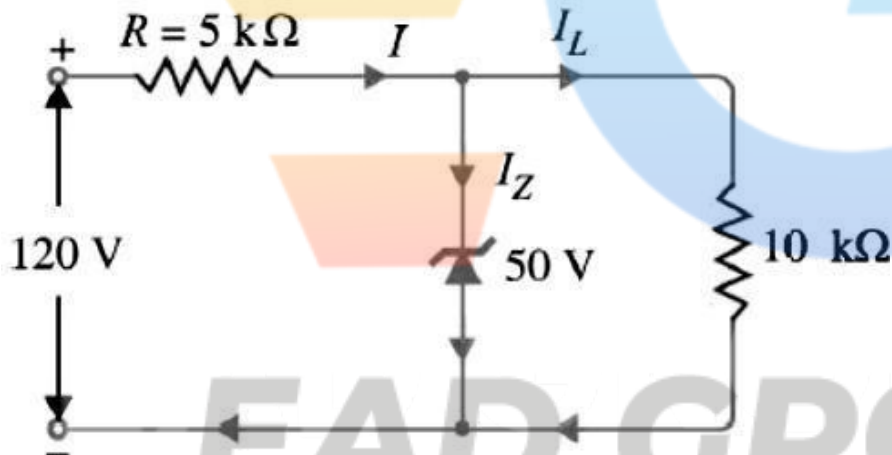
- Ans
- A. hair driers
 - B. compressors
 - C. conveyors
 - D. pumps

Question ID : 1034359526

Status : Answered

Chosen Option : C

Q.3 For the given circuit, find the voltage drop across the $5\ \text{k}\Omega$ resistance:



- Ans
- A. 70 V
 - B. 80 V
 - C. 120 V
 - D. 50 V

Question ID : 1034359574

Status : Not Answered

Chosen Option : --

Q.4 The maximum demand on a power station is 100 MW. If the annual load factor is 50%, calculate the total energy generated in a year.

- Ans
- A. 4380×10^5 kWh
 - B. 4380×10^6 kWh
 - C. 4380×10^3 kWh
 - D. 4380×10^4 kWh

Question ID : 1034359541

Status : Not Answered

Chosen Option : -

Q.5 A series RLC circuit has $R = 50 \Omega$, $X_C = 30 \Omega$ and $X_L = 40 \Omega$. The impedance of the circuit is:

- Ans
- A. $50 - j 10 \Omega$
 - B. $50 + j 70 \Omega$
 - C. $50 - j 70 \Omega$
 - D. $50 + j 10 \Omega$

Question ID : 1034359501

Status : Answered

Chosen Option : D

Q.6 Fluorescent lamps give the best performance at _____ temperature.

- Ans
- A. $75^\circ\text{C} - 80^\circ\text{C}$
 - B. $20^\circ\text{C} - 25^\circ\text{C}$
 - C. $95^\circ\text{C} - 100^\circ\text{C}$
 - D. $0^\circ\text{C} - 5^\circ\text{C}$

Question ID : 1034359565

Status : Answered

Chosen Option : D

Q.7 Identify whether the given statements are true or false.

1. In a Y-connected load, the line current and phase current are equal.
2. In a balanced three-phase circuit, the total instantaneous power is equal to the average power.

- Ans
- A. 1-false, 2-true
 - B. 1-false, 2-false
 - C. 1-true, 2-false
 - D. 1-true, 2-true

Question ID : 1034359505

Status : Not Answered

Chosen Option : -

Q.8 When a star-delta starter is used to start a three-phase motor, how many circuit conductors are required between the starter and motor?

- Ans A. 3
 B. 4
 C. 2
 D. 6

Question ID : 1034359558

Status : Answered

Chosen Option : A

Q.9 कैथोड किरण दोलनदर्शी की स्क्रीन पर ट्रेस की तीव्रता को _____ पर वोल्टेज को परिवर्तित करके नियंत्रित किया जा सकता है।

- Ans A. फोकसिंग एनोड
 B. ऊर्ध्वाधर विक्षेपण पट्टिकाओं
 C. ग्रिड
 D. क्षैतिज विक्षेपण पट्टिकाओं

Question ID : 1034359507

Status : Answered

Chosen Option : A

Q.10 In a single-phase DC drive the power modulator will be _____.

- Ans A. a transformer
 B. a cycloconverter
 C. a controlled rectifier
 D. an inverter

Question ID : 1034359567

Status : Not Answered

Chosen Option : -

Q.11 A steel ring with a 5 cm^2 cross-sectional area is wound uniformly with 600 turns of wire carrying a current of 300 mA. Find the MMF.

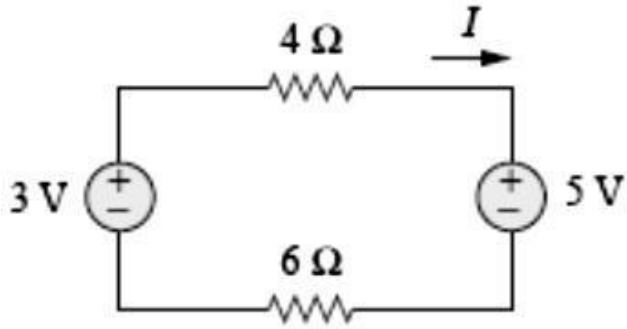
- Ans A. 1500 AT
 B. 1800 AT
 C. 180 AT
 D. 200 AT

Question ID : 1034359493

Status : Answered

Chosen Option : C

Q.12 Find the current I in the given circuit:



- Ans
- A. 0.2 A
 - B. 0.8 A
 - C. -0.2 A
 - D. -0.8 A

Question ID : 1034359485

Status : Answered

Chosen Option : C

Q.13 How much energy does a 100 W electric bulb consume in two hours?

- Ans
- A. 36 kJ
 - B. 720 kJ
 - C. 72 kJ
 - D. 360 kJ

Question ID : 1034359480

Status : Not Answered

Chosen Option : -

Q.14 The owner of every overhead line shall ensure that the minimum factors of safety for metal support is ____.

- Ans
- A. 2
 - B. 1.5
 - C. 3
 - D. 2.5

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Question ID : 1034359555

Status : Answered

Chosen Option : A

Q.15 Identify whether the given statements are true or false.

1. The Merz-Price calculating current principle is more suitable for generators than transformers.
2. The differential protection scheme for longer lines is very cheap.

- Ans A. 1-True, 2-True
 B. 1-True, 2-False
 C. 1-False, 2-False
 D. 1-False, 2-True

Question ID : 1034359553

Status : Answered

Chosen Option : A

Q.16 निम्न में से किस पहलू के मामले में, ट्रांजिस्टर, वैक्यूम ट्यूब से बेहतर होते हैं?

- Ans A. शक्ति-क्षय
 B. वोल्टेज लब्धि
 C. ताप निर्भरता
 D. इनपुट प्रतिबाधा

Question ID : 1034359579

Status : Not Answered

Chosen Option : -

Q.17 IE 1956 के अनुसार, एक स्विचबोर्ड के सामने कम से कम _____ चौड़ाई का एक क्लियर स्पेस (clear space) प्रदान किया जाना चाहिए।

- Ans A. 4 m
 B. 2 m
 C. 3 m
 D. 1 m

Question ID : 1034359554

Status : Answered

Chosen Option : D

Q.18 निम्न में से किस मापदंड को सीमेंस में व्यक्त नहीं किया जा सकता है?

- Ans A. चालकत्व
 B. प्रवेश्यता
 C. प्रतिघात
 D. अनुक्रियता

Question ID : 1034359500

Status : Answered

Chosen Option : A

Q.19 Identify whether the given statements related to alternators are true or false.

1. Pitch factor is always less than unity.
2. The efficiency of an alternator always increases with the power.

- Ans
- A. 1–false, 2–false
 - B. 1–false, 2–true
 - C. 1–true, 2–false
 - D. 1–true, 2–true

Question ID : 1034359535

Status : Answered

Chosen Option : C

Q.20 In case of PT, if the load on the secondary side increases, then:

- Ans
- A. the ratio error increases but the phase angle decreases
 - B. both the ratio error and the phase angle decrease
 - C. both the ratio error and the phase angle increase
 - D. the ratio error decreases but the phase angle increases

Question ID : 1034359512

Status : Not Answered

Chosen Option : –

Q.21 What will be the peak value of the sinusoidal voltage if the RMS value of the signal is 100 V?

- Ans
- A. 200 V
 - B. 100 V
 - C. 141.2 V
 - D. 70.71 V

Question ID : 1034359499

Status : Not Answered

Chosen Option : –

Q.22 A ring-shaped core with a cross-sectional area of 2 cm^2 has a flux density of 5 T. Find the flux in the core.

- Ans
- A. 1 Wb
 - B. 10 Wb
 - C. 0.001 Wb
 - D. 0.01 Wb

Question ID : 1034359492

Status : Not Answered

Chosen Option : –

Q.23 In a three-phase supply, $V_{bn} = 110 \angle 30^\circ$ V. Assuming a positive sequence, find V_{cn} .

- Ans
- A. $110 \angle -90^\circ$ V
 - B. $110 \angle 150^\circ$ V
 - C. $110 \angle -30^\circ$ V
 - D. $110 \angle 120^\circ$ V

Question ID : 1034359502

Status : Answered

Chosen Option : B

Q.24 In alternators, the synchronous reactance is nothing but _____.

- Ans
- A. the armature reactance only
 - B. the armature resistance only
 - C. the combination of leakage reactance and armature reactance
 - D. the leakage reactance only

Question ID : 1034359532

Status : Answered

Chosen Option : C

Q.25 _____ can be used for higher voltages ranging from 66 kV to 230 kV.

- Ans
- A. Oil filled cables
 - B. H-type cables
 - C. S.L. type cables
 - D. Belted cables

Question ID : 1034359545

Status : Answered

Chosen Option : A

Q.26 What should be the value of the slip (s) for an induction machine to act as an electric brake?

- Ans
- A. $s < 0$
 - B. $s > 1$
 - C. $0 < s < 1$
 - D. $s = 0$

Question ID : 1034359520

Status : Answered

Chosen Option : B

Q.27 Among the given options, Ohm's law is applicable for _____ only.

- Ans
- A. silicon
 - B. silicon carbide
 - C. germanium
 - D. copper

Question ID : 1034359478

Status : Answered

Chosen Option : D

Q.28 The maximum demand on a power station is 25 MW. If the load factor is 60% and the plant capacity factor is 50%, calculate the reserve capacity of the plant.

- Ans
- A. 30 MW
 - B. 25 MW
 - C. 5 MW
 - D. 15 MW

Question ID : 1034359549

Status : Answered

Chosen Option : C

Q.29 In a CGS system, the kinematic viscosity is expressed in _____.

- Ans
- A. stokes
 - B. poise
 - C. newton per square metre
 - D. pounds per square inches

Question ID : 1034359585

Status : Not Answered

Chosen Option : --

Q.30 Which of the following is a variable area type flowmeter?

- Ans
- A. Rotameter
 - B. Electromagnetic flowmeter
 - C. Venturimeter
 - D. Orifice meter

Question ID : 1034359586

Status : Not Answered

Chosen Option : --

Q.31 To reduce the loading error of the voltmeter to less than 1%, the resistance of the voltmeter should be at least _____ as large as the resistance of the path across which the voltage is being measured.

- Ans
- A. 10 times
 - B. 20 times
 - C. 1000 times
 - D. 100 times

Question ID : 1034359511

Status : Not Answered

Chosen Option : --

Q.32 Which of the following CANNOT be used for power factor improvement?

- Ans A. Static capacitor
 B. Inductor bank
 C. Phase advancer
 D. Synchronous condenser

Question ID : 1034359542

Status : Answered

Chosen Option : B

Q.33 A three-phase motor draws 5.6 kW power when subjected to the apparent power of 7000 W.
Find the power factor.

- Ans A. 0.6
 B. 0.8
 C. 0.9
 D. 0.7

Question ID : 1034359503

Status : Answered

Chosen Option : B

Q.34 As per IE rules, the maximum fluctuation in the 50 Hz supply frequency must be within _____.

- Ans A. $\pm 1\%$
 B. $\pm 3\%$
 C. $\pm 2\%$
 D. $\pm 5\%$

Question ID : 1034359556

Status : Answered

Chosen Option : B

Q.35 Which of the following draughts does NOT require the use of a fan?

- Ans A. Induced draught
 B. Forced draught
 C. Balanced draught
 D. Natural draught

Question ID : 1034359538

Status : Not Answered

Chosen Option : -

Q.36 Which of the following parts is NOT found in a steam power plant?

- Ans A. Economiser
 B. Heavy water reactor
 C. Air-preheater
 D. Superheater

Question ID : 1034359539

Status : Answered

Chosen Option : B

Q.37 Which of the following is NOT a valid advantage of a AC transmission system over a DC transmission system?

- Ans A. Voltages can be stepped up or stepped down with ease and efficiency.
 B. Power can be generated at high voltages.
 C. Maintenance of AC substation is easy and cheaper.
 D. Copper requirement is lesser than the DC line.

Question ID : 1034359528

Status : Answered

Chosen Option : D

Q.38 For a power plant, the value of diversity factor will always be _____.

- Ans A. between zero and unity
 B. zero
 C. negative
 D. greater than unity

Question ID : 1034359540

Status : Answered

Chosen Option : D

Q.39 Which of the following is NOT a unit of pressure measurement?

- Ans A. Pascal
 B. Newton
 C. Bar
 D. Torr

Question ID : 1034359582

Status : Answered

Chosen Option : D

Q.40 If a periodic signal displayed on the cathode ray oscilloscope screen has a distance of 4 cm between the beginning and the end of a cycle, and if the Time/Div. control is set to 1 ms/div., calculate the frequency of the waveform.

- Ans A. 1000 Hz
 B. 250 Hz
 C. 100 Hz
 D. 400 Hz

Question ID : 1034359514
Status : Not Answered
Chosen Option : -

Q.41 Which of the following bridges is frequency sensitive?

- Ans A. Maxwell's bridge
 B. De-Sauty bridge
 C. Wien's bridge
 D. Schering bridge

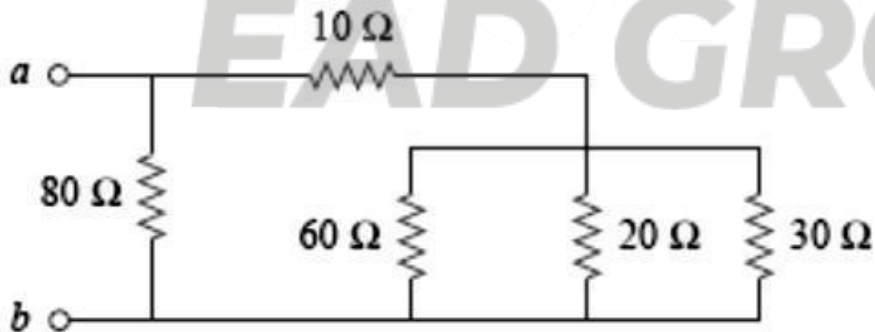
Question ID : 1034359509
Status : Answered
Chosen Option : C

Q.42 In DC motors, which of the following types of braking is called plugging?

- Ans A. Reverse current braking
 B. Friction braking
 C. Rheostatic braking
 D. Regenerative braking

Question ID : 1034359522
Status : Answered
Chosen Option : A

Q.43 Find the value of R_{eq} in the given network:



- Ans A. 12 Ω
 B. 24 Ω
 C. 20 Ω
 D. 16 Ω

Question ID : 1034359489
Status : Answered
Chosen Option : D

Q.44 निम्न में से _____ को छोड़कर, शेष डायोड रिवर्स बायस्ड स्थिति में संचालित होते हैं।

- Ans
- A. फोटो डायोड
 - B. वैरेक्टर डायोड
 - C. टनल डायोड
 - D. जेनर डायोड

Question ID : 1034359573

Status : Answered

Chosen Option : A

Q.45 यदि _____ के आधार पर तुलना की जाए, तो बल्क ऑयल परिपथ वियोजक, निम्न ऑयल परिपथ वियोजक की तुलना में लाभप्रद होते हैं।

- Ans
- A. स्थान की आवश्यकता
 - B. आग का खतरा
 - C. आवश्यक तेल की मात्रा (quantity of oil required)
 - D. कार्बनीकरण के स्तर (degree of carbonisation)

Question ID : 1034359548

Status : Answered

Chosen Option : B

Q.46 In circuit breakers, which of the following methods is a NOT a correct method of increasing arc resistance?

- Ans
- A. Cooling the arc
 - B. Splitting the arc
 - C. Shortening the arc
 - D. Reducing the cross-section of the arc

Question ID : 1034359547

Status : Answered

Chosen Option : C

Q.47 Which of the following gauges is used for calibration of other gauges in vacuum measurement?

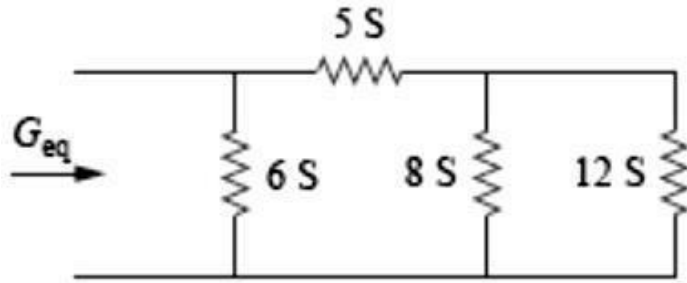
- Ans
- A. Ionisation gauge
 - B. Thermocouple gauge
 - C. Pirani gauge
 - D. McLeod gauge

Question ID : 1034359584

Status : Answered

Chosen Option : C

Q.48 Find the value of G_{eq} in the given network:



- Ans
- A. 12 S
 - B. 6 S
 - C. 10 S
 - D. 4 S

Question ID : 1034359488

Status : Not Answered

Chosen Option : -

Q.49 समान आउटपुट के लिए, सिंगल-फेज इंडक्शन मोटर, संगत 3-फेज इंडक्शन मोटर से लगभग _____ होती है।

- Ans
- A. 3% बड़ी
 - B. 3% छोटी
 - C. 30% बड़ी
 - D. 30% छोटी

Question ID : 1034359525

Status : Answered

Chosen Option : C

Q.50 A relay is connected to a 400/5 current transformer and set at 150%. With a primary fault current of 2400 A, the plug-setting multiplier is:

- Ans
- A. 3
 - B. 6
 - C. 4
 - D. 5

Question ID : 1034359551

Status : Not Answered

Chosen Option : -

Q.51 Which of the following tariffs is a three-part tariff?

- Ans
- A. Doherty rate
 - B. Block meter rate
 - C. Hopkinson demand rate
 - D. Straight meter rate

Question ID : 1034359537

Status : Answered

Chosen Option : A

Q.52 Identify whether the given statements related to the common collector configuration of BJT are true or false.

1. Voltage gain is less than unity.
2. Input resistance is very low.

- Ans A. 1-true, 2-false
 B. 1-true, 2-true
 C. 1-false, 2-false
 D. 1-false, 2-true

Question ID : 1034359577

Status : Answered

Chosen Option : A

Q.53 The output impedance of the AF oscillators and RF oscillators are usually _____ and _____ , respectively.

- Ans A. 50 Ω , 600 Ω
 B. 600 Ω , 50 Ω
 C. 500 Ω , 100 Ω
 D. 100 Ω , 500 Ω

Question ID : 1034359513

Status : Not Answered

Chosen Option : -

Q.54 A single-phase half wave converter DC drive can be operated in:

- Ans A. forwarding motoring mode only
 B. forward braking mode only
 C. forward motoring and forward braking mode
 D. reverse motoring mode only

Question ID : 1034359569

Status : Not Answered

Chosen Option : -

Q.55 Two coils having self-inductances of 9 H and 4 H, respectively, are coupled in such a way that the coefficient of coupling is 0.5. Find the mutual inductance.

- Ans A. 18 H
 B. 12 H
 C. 6 H
 D. 3 H

Question ID : 1034359497

Status : Answered

Chosen Option : D

Q.56 Find the value of β for a BJT having $\alpha = 0.99$.

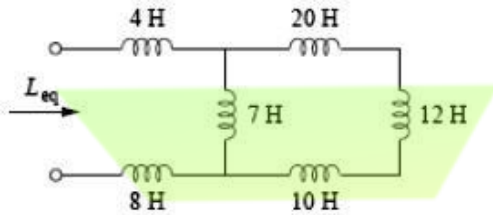
- Ans A. 9.0
 B. 0.99
 C. 9.9
 D. 99

Question ID : 1034359576

Status : Answered

Chosen Option : D

Q.57 Find the value of L_{eq} in the given circuit:



- Ans A. 6 H
 B. 24 H
 C. 12 H
 D. 18 H

Question ID : 1034359483

Status : Answered

Chosen Option : D

Q.58 Rother's MMF method is used for finding the voltage regulation of:

- Ans A. DC generator
 B. transformer
 C. alternator
 D. induction motor

Question ID : 1034359533

Status : Answered

Chosen Option : C

Q.59 Universal motors of sizes 0.25 HP or less are suitable for ____ .

- Ans A. cranes
 B. electric hand drills
 C. pressing machine
 D. elevators

Question ID : 1034359568

Status : Answered

Chosen Option : B

Q.60 A current charging a dielectric material accumulates a charge of 24 C in 6 seconds. Find the current.

- Ans A. 6 A
 B. 4 A
 C. 2 A
 D. 0.25 A

Question ID : 1034359481

Status : Answered

Chosen Option : B

Q.61 The polarity of the voltage induced in the generation mode of the DC machine is given by _____.

- Ans A. Fleming's right-hand rule
 B. Faraday's law
 C. Kirchoff's law
 D. Lenz's law

Question ID : 1034359515

Status : Answered

Chosen Option : A

Q.62 किसी ऊर्जा स्रोत से किसी प्रकाश बल्ब में 2 A की स्थिर धारा 10 s के लिए प्रवाहित होती है। यदि 2.3 kJ, प्रकाश और ऊष्मा ऊर्जा के रूप में दिया गया है, तो बल्ब में बोल्टता पात (वोल्टेज ड्रॉप) की गणना कीजिए।

- Ans A. 230 V
 B. 460 V
 C. 115 V
 D. 75 V

Question ID : 1034359482

Status : Answered

Chosen Option : C

Q.63 A 250 V lamp has a total flux of 2500 lumens and it takes a current of 500 mA. Find lumens per watt.

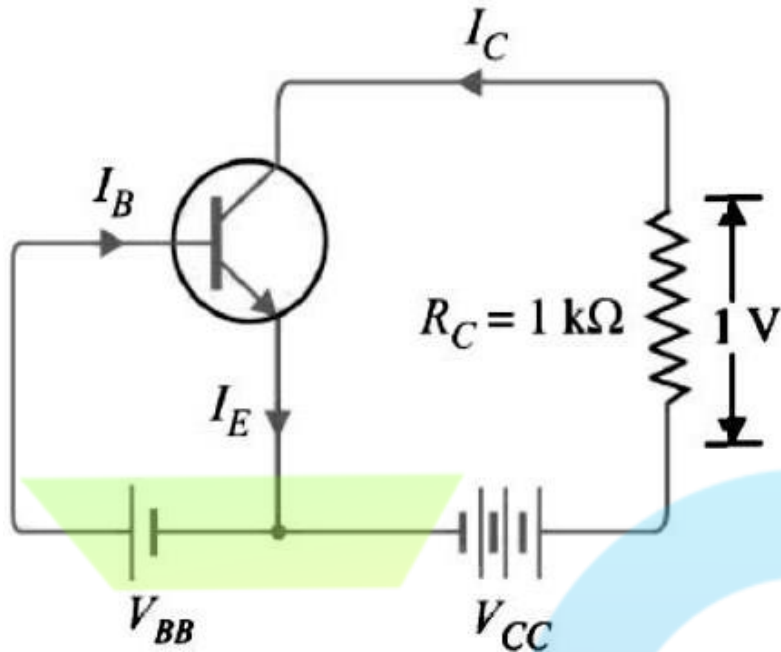
- Ans A. 10
 B. 15
 C. 20
 D. 30

Question ID : 1034359571

Status : Answered

Chosen Option : C

Q.64 For the given circuit, find the base current I_B if given that $\beta = 50$.



- Ans
- A. 20 mA
 - B. 2 mA
 - C. 0.02 mA
 - D. 0.2 mA

Question ID : 1034359580

Status : Not Answered

Chosen Option : -

Q.65 Which of the following is NOT found in a hydroelectric power plant?

- Ans
- A. Boiler
 - B. Spillway
 - C. Penstock
 - D. Surge tank

Question ID : 1034359536

Status : Answered

Chosen Option : A

Q.66 निम्न में से कौन सा केबल में प्रयुक्त विद्युत् रोधन पदार्थों का वांछनीय गुण है?

- Ans
- A. निम्न परावैद्युत सामर्थ्य
 - B. अनार्द्रताग्राही
 - C. निम्न प्रतिरोध
 - D. निम्न यांत्रिक सामर्थ्य

Question ID : 1034359544

Status : Answered

Chosen Option : B

Q.67 An alternating voltage is given by the expression $v(t) = 100 \sin 314t$. Calculate the time period.

- Ans
- A. 100 mS
 - B. 40 mS
 - C. 20 mS
 - D. 10 mS

Question ID : 1034359498
Status : Not Answered
Chosen Option : --

Q.68 For a common emitter configuration of BJT, the DC load line is the plot of:

- Ans
- A. $I_B - I_C$
 - B. $V_{BE} - I_C$
 - C. $V_{BE} - I_B$
 - D. $I_C - V_{CE}$

Question ID : 1034359578
Status : Not Answered
Chosen Option : --

Q.69 In magnetic circuits, the ratio of magnetomotive force (MMF) to reluctance is known as _____.

- Ans
- A. permeance
 - B. specific reluctance
 - C. flux
 - D. flux density

Question ID : 1034359490
Status : Answered
Chosen Option : D

Q.70 Among the following, the relative permeability of _____ material is the maximum.

- Ans
- A. ferromagnetic
 - B. diamagnetic
 - C. paramagnetic
 - D. non-magnetic

Question ID : 1034359491
Status : Answered
Chosen Option : A

Q.71 A cathode ray oscilloscope CANNOT be used for the measurement of:

- Ans A. amplitude
 B. phase
 C. energy
 D. frequency

Question ID : 1034359506

Status : Answered

Chosen Option : C

Q.72 Head flowmeters measure the fluid flow based on the _____.

- Ans A. Bernoulli's theorem
 B. Doppler effect
 C. Electromagnetic induction principle
 D. Stokes' law

Question ID : 1034359587

Status : Answered

Chosen Option : A

Q.73 Which of the following diodes is a four-layer diode?

- Ans A. Shockley diode
 B. Zener diode
 C. Light emitting diode
 D. Photo diode

Question ID : 1034359575

Status : Answered

Chosen Option : A

Q.74 In a Δ - Δ system, a phase voltage of 100 V produces a line voltage of:

- Ans A. 71 V
 B. 173 V
 C. 100 V
 D. 141 V

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Question ID : 1034359504

Status : Answered

Chosen Option : C

Q.75 In which of the following aspects is DC welding more advantageous than AC welding?

- Ans A. Cost
 B. Efficiency
 C. Power consumption
 D. Arc stability

Question ID : 1034359563

Status : Answered

Chosen Option : B

Q.76 Between two mutually coupled coils, if the mutual inductance is maximum, then the value of the coefficient of coupling between the coils is:

- Ans A. 1.0
 B. 0
 C. 0.5
 D. 0.75

Question ID : 1034359495
Status : Not Answered
Chosen Option : -

Q.77 Which of the following is NOT a valid method for speed control of a universal motor?

- Ans A. Resistance method
 B. Tapping-field method
 C. Centrifugal mechanism
 D. Shaded pole mechanism

Question ID : 1034359529
Status : Answered
Chosen Option : D

Q.78 To dry the fresh layer of paint on a large surface, _____ is used.

- Ans A. resistance heating
 B. infrared heating
 C. induction heating
 D. dielectric heating

Question ID : 1034359560
Status : Answered
Chosen Option : B

Q.79 In a synchronous machine, if the coil is full-pitched, the two sides of the coil are _____ electrical degree apart.

- Ans A. 180
 B. 90
 C. 45
 D. 30

Question ID : 1034359530
Status : Answered
Chosen Option : A

Q.80 The colour code used for the pipelines for electrical services and ventilation ducts is _____.

- Ans
- A. green
 - B. silver
 - C. black
 - D. orange

Question ID : 1034359557

Status : Not Answered

Chosen Option : -

Q.81 In DC machines, copper losses take place in:

- Ans
- A. armature conductors, series field winding and shunt field winding
 - B. armature conductors and series field winding
 - C. armature conductors
 - D. armature conductors and shunt field winding

Question ID : 1034359516

Status : Answered

Chosen Option : A

Q.82 In a DC machine, an 8-pole lap connected armature has 960 conductors, a flux of 40 mWb per pole and a speed of 400 rpm. Determine the EMF generated.

- Ans
- A. 256 V
 - B. 128 V
 - C. 64 V
 - D. 512 V

Question ID : 1034359523

Status : Answered

Chosen Option : A

Q.83 In electromagnetic induction, the expression for induced voltage is based on _____.

- Ans
- A. Kirchhoff's law and Lenz's law
 - B. Faraday's law and Kirchhoff's law
 - C. Faraday's law and Lenz's law
 - D. Ohm's law and Faraday's law

Question ID : 1034359494

Status : Answered

Chosen Option : C

Q.84 In circuit breakers, the ratio of the making capacity to the symmetrical breaking capacity is approximately_____.

- Ans A. 3.55
 B. 2.55
 C. 4.55
 D. 1.55

Question ID : 1034359550
Status : Answered
Chosen Option : B

Q.85 Which of the following is NOT observed in a permanent-split single-phase capacitor motor?

- Ans A. Starting winding
 B. Centrifugal switch
 C. Squirrel-cage rotor
 D. High power factor

Question ID : 1034359527
Status : Answered
Chosen Option : B

Q.86 Which of the following is NOT a suitable material for the heating element in resistance heating?

- Ans A. Silver
 B. Tungsten
 C. Nichrome
 D. Silicon carbide

Question ID : 1034359561
Status : Answered
Chosen Option : A

Q.87 Which of the following is NOT a characteristic of a slip ring induction motor?

- Ans A. High maintenance
 B. High cost
 C. High efficiency
 D. High starting torque

Question ID : 1034359517
Status : Answered
Chosen Option : A

Q.88 What is the upward and downward lighting distribution in the semi-indirect type of lighting arrangement?

- Ans A. 10-40% upwards, 60-90% downwards
 B. 60-90% upwards, 10-40% downwards
 C. 0-10% upwards, 90-100% downwards
 D. 90-100% upwards, 0-10% downwards

Question ID : 1034359559

Status : Answered

Chosen Option : B

Q.89 Which of the following statements related to DC shunt motor is INCORRECT?

- Ans A. It is not suitable for heavy duty starting.
 B. The torque is zero for zero armature current.
 C. The torque-armature current is a straight line.
 D. The torque is inversely proportional to the current.

Question ID : 1034359572

Status : Answered

Chosen Option : D

Q.90 इलेक्ट्रिक ड्राइव का कौन सा भाग मोटर के संचालन के मोटरिंग या ब्रेकिंग मोड का चयन करता है? है?

- Ans A. सोर्स
 B. पावर मॉड्यूलटर
 C. लोड
 D. मोटर

Question ID : 1034359566

Status : Answered

Chosen Option : C

Q.91 If a stationary alternator is connected to a live bus bar, then _____.

- Ans A. it will run as a synchronous motor
 B. it will disturb the generated EMF of other alternators connected in parallel
 C. it will get short-circuited
 D. it will reduce the bus bar voltage momentarily

Question ID : 1034359534

Status : Answered

Chosen Option : B

Q.92 Which of the following statements related to dynamometer type wattmeter is INCORRECT?

- Ans A. Air friction damping is used.
 B. Both the coils are air cored.
 C. It can be used only for AC circuits.
 D. The pressure coil is a moving coil.

Question ID : 1034359508

Status : Answered

Chosen Option : C

Q.93 The process of achieving uniform electrostatic stress in the dielectric of cables is known as _____ of cables.

- Ans A. scaling
 B. grading
 C. derating
 D. serving

Question ID : 1034359546

Status : Answered

Chosen Option : B

Q.94 Which of the following statements related to JFET is INCORRECT?

- Ans A. It has a high input impedance.
 B. It is also called unipolar transistor.
 C. It generates large noise as compared to BJT.
 D. It is a three-terminal voltage controlled device.

Question ID : 1034359581

Status : Answered

Chosen Option : C

Q.95 1000 Torr = _____

- Ans A. 1 Micron
 B. 10 mm of Hg
 C. 1000 mm of Hg
 D. 100 mm of Hg

Question ID : 1034359583

Status : Not Answered

Chosen Option : --

Q.96 Which of the following bridges is also used in an oscillator?

- Ans A. Schering bridge
 B. Wien's bridge
 C. Maxwell's bridge
 D. Hay's bridge

Question ID : 1034359510

Status : Answered

Chosen Option : C

Q.97 The skin effect is most dominantly observed in _____.

- Ans
- A. infrared heating
 - B. resistance heating
 - C. dielectric heating
 - D. induction heating

Question ID : 1034359562

Status : Answered

Chosen Option : D

Q.98 If the EMF in the stator of an 8-pole induction motor has a frequency of 50 Hz and that in the rotor has 1.5 Hz, find the slip.

- Ans
- A. 2%
 - B. 6%
 - C. 1.5%
 - D. 3%

Question ID : 1034359521

Status : Answered

Chosen Option : D

Q.99 In which of the following pairs of networks are the networks mentioned the same?

- Ans
- A. Y-Network and π -Network
 - B. T-Network and Δ -Network
 - C. Y-Network and T-Network
 - D. Y-Network and Δ -Network

Question ID : 1034359486

Status : Not Answered

Chosen Option : -

Q.100 In case of a star delta starter used for induction motors, the starting torque is _____.

- Ans
- A. twice the final torque
 - B. three times the final torque
 - C. half of the final torque
 - D. one-third of the final torque

Question ID : 1034359524

Status : Answered

Chosen Option : B

Q.101 In alternators, in case of zero power factor leading loads, the armature reaction is _____.

- Ans A. wholly magnetising
 B. distortional
 C. unpredictable
 D. wholly demagnetising

Question ID : 1034359531

Status : Answered

Chosen Option : A

Q.102 A conductor of length 50 cm moves in a uniform magnetic field of density 1.1 T at a velocity of 30 m/s. Calculate the induced voltage in the conductor when the direction of motion is perpendicular to the field.

- Ans A. 0 V
 B. 1.65 V
 C. 165 V
 D. 16.5 V

Question ID : 1034359496

Status : Answered

Chosen Option : D

Q.103 A 25 kVA transformer has 50 turns on the secondary winding and 500 turns on the primary winding. Find the voltage transformation ratio.

- Ans A. 0.1
 B. 0.5
 C. 1.0
 D. 0.9

Question ID : 1034359518

Status : Answered

Chosen Option : A

Q.104 Which of the following connections in a three-phase transformer is known as the Scott connection?

- Ans A. V-V connection
 B. Y-Y connection
 C. Δ - Δ connection
 D. T-T connection

Question ID : 1034359519

Status : Answered

Chosen Option : D

Q.105 Which of the following is NOT a valid advantage of oil-filled cables?

- Ans A. Formation of voids and ionisation are avoided
 B. Higher dielectric strength
 C. Low cost
 D. Higher temperature range

Question ID : 1034359543

Status : Answered

Chosen Option : C

Q.106 Which of the following is NOT a correct method of speed control of DC motor?

- Ans A. Voltage control
 B. Field control
 C. Slip power recovery control
 D. Rheostatic control

Question ID : 1034359570

Status : Answered

Chosen Option : C

Q.107 Identify whether the given statements are true or false.

1. The two most commonly used schemes for bus bar protection are differential protection and fault bus protection.
2. The most important stator winding fault of an alternator is earth fault.

- Ans A. 1-true, 2-false
 B. 1-false, 2-false
 C. 1-false, 2-true
 D. 1-true, 2-true

Question ID : 1034359552

Status : Not Answered

Chosen Option : -

Q.108 Induction heating CANNOT be used for _____.

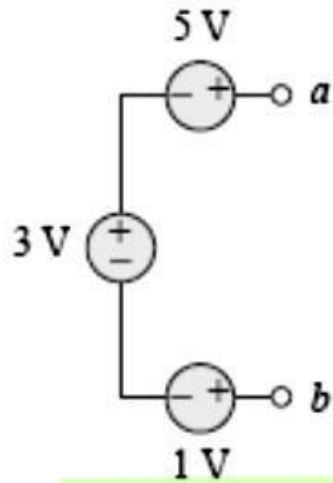
- Ans A. preheating of plastic preforms
 B. surface hardening
 C. annealing
 D. sterilisation of surgical instruments

Question ID : 1034359564

Status : Answered

Chosen Option : A

Q.109 Find the voltage V_{ab} in the given circuit:



- Ans
- A. 1 V
 - B. 7 V
 - C. 3 V
 - D. 9 V

Question ID : 1034359484

Status : Answered

Chosen Option : B

Q.110 Which of the following materials has a positive temperature coefficient of resistance?

- Ans
- A. Mica
 - B. Manganin
 - C. Silicon
 - D. Germanium

Question ID : 1034359479

Status : Answered

Chosen Option : B

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