

**MPPGCL
JE**

**Previous Year Paper
(Plant Electrical)
01 Jun, 2024 Shift 1**

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MPPGCL 1st June 2024

Participant ID	
Participant Name	
Test Center Name	
Test Date	01/06/2024
Test Time	8:30 AM - 10:30 AM
Subject	Junior Engineer Plant Electrical

Section : Section 1

Q.1 Select the most appropriate option to fill in the blank.
The Superintendent of Police, along with some policemen, _____ the criminal.

- Ans ☒ 1. chase
☒ 2. was seen chasing
☒ 3. were seen chasing
☒ 4. have been chasing

Question ID : 630680157015
 Option 1 ID : 630680607615
 Option 2 ID : 630680607612
 Option 3 ID : 630680607614
 Option 4 ID : 630680607613
 Status : Answered
 Chosen Option : 3

Q.2 ब्रश रहित DC मोटर के संचालन के पीछे मुख्य सिद्धांत क्या है?

- Ans ☒ 1. दिक्परिवर्तन के लिए सर्पी वलय और कार्बन ब्रश की उपयोग
☒ 2. घूर्णन के लिए स्टेटर वाइंडिंग में चुम्बकीय प्रेरण का अनुप्रयोग
☒ 3. मोटर चाल को नियंत्रित करने के लिए प्रदायी शक्ति की आवृत्ति में परिवर्तन
☒ 4. यथार्थ इलेक्ट्रॉनिक दिक्परिवर्तन के लिए हॉल सेंसर या कोडित्र से फीडबैक

Question ID : 630680380896
 Option 1 ID : 6306801484571
 Option 2 ID : 6306801484572
 Option 3 ID : 6306801484574
 Option 4 ID : 6306801484573
 Status : Answered
 Chosen Option : 2

Q.3 The transformation ratio K of an isolation transformer is _____.

- Ans ☒ 1. $K > 1$
☒ 2. $K = 1$
☒ 3. $K < 1$
☒ 4. $K = 0$

Question ID : 630680227814
 Option 1 ID : 630680883931
 Option 2 ID : 630680883934
 Option 3 ID : 630680883932
 Option 4 ID : 630680883933
 Status : Answered
 Chosen Option : 2

Q.4 बांदीपुर राष्ट्रीय उद्यान निम्नलिखित में से किस राज्य में स्थित है?

- Ans ☒ 1. पश्चिम बंगाल
☒ 2. उत्तर प्रदेश
☒ 3. उत्तराखंड
☒ 4. कर्नाटक

Question ID : 630680553052
Option 1 ID : 6306802162303
Option 2 ID : 6306802162302
Option 3 ID : 6306802162304
Option 4 ID : 6306802162305
Status : Answered
Chosen Option : 1

Q.5 तीन प्राकृतिक संख्याएँ हैं। यदि उनमें से किन्हीं दो का औसत तीसरी संख्या में जोड़ दिया जाए, तो प्राप्त योग 175, 183 और 188 है। तीनों मूल संख्याओं का औसत कितना है?

- Ans ☒ 1. 89
☒ 2. 93
☒ 3. 90
☒ 4. 91

Question ID : 630680631268
Option 1 ID : 6306802471020
Option 2 ID : 6306802471021
Option 3 ID : 6306802471018
Option 4 ID : 6306802471019
Status : Answered
Chosen Option : 4

Q.6 According to Electricity Act, 2003, the tariff for inter-state transmission of electricity is determined by which of the following?

- Ans ☒ 1. State Electricity Regulatory Commission
☒ 2. Central Electricity Regulatory Commission
☒ 3. Both State and Central Regulatory Commissions
☒ 4. Joint commission

Question ID : 630680787633
Option 1 ID : 6306803086344
Option 2 ID : 6306803086345
Option 3 ID : 6306803086347
Option 4 ID : 6306803086346
Status : Answered
Chosen Option : 3

Q.7 In measuring instruments, a particular type of recording instrument is obtained by modifying the construction of the indicating instrument. This is done by replacing the pointer and scale of normal indicating instrument by a _____.

- Ans
- ☒ 1. polarised moving iron instrument
 - ☒ 2. clockwork of constant speed
 - ☒ 3. light arm carrying an ink pen
 - ☒ 4. ironless dynamic instrument

Question ID : 630680379036

Option 1 ID : 6306801477193

Option 2 ID : 6306801477191

Option 3 ID : 6306801477192

Option 4 ID : 6306801477194

Status : Answered

Chosen Option : 1

Q.8 What is the standard rating for three-phase distribution transformers for rural supply?

- Ans
- ☒ 1. 6/8 kVA, 10/12 kVA, 16/20 kVA
 - ☒ 2. 10 kVA, 16 kVA, 100 kVA, 200 kVA, 500 kVA
 - ☒ 3. 415 VA, 11000 VA, 33000 VA, 66000 VA, 132000 VA
 - ☒ 4. 11/0.433 kVA

Question ID : 630680396767

Option 1 ID : 6306801547153

Option 2 ID : 6306801547152

Option 3 ID : 6306801547154

Option 4 ID : 6306801547155

Status : Answered

Chosen Option : 3

Q.9 The dielectric strength of nitrogen is _____.

- Ans
- ☒ 1. 1 to 2 V/mm
 - ☒ 2. 6 to 7 V/mm
 - ☒ 3. 7 to 8 V/mm
 - ☒ 4. 3 to 5 V/mm

Question ID : 630680376442

Option 1 ID : 6306801466835

Option 2 ID : 6306801466837

Option 3 ID : 6306801466838

Option 4 ID : 6306801466836

Status : Answered

Chosen Option : 2

Q.10 The limitation of high transmission voltage in an AC system is _____.

- Ans
- ☒ 1. the increased efficiency
 - ☒ 2. the increased power
 - ☒ 3. the increased line conductor
 - ☒ 4. the cost of the insulating conductor

Question ID : 630680401933

Option 1 ID : 6306801567479

Option 2 ID : 6306801567480

Option 3 ID : 6306801567481

Option 4 ID : 6306801567478

Q.11 3-फेज ट्रांसफार्मर के परिचालन के दौरान कनेक्शन के विकल्प (choice of connection) को निम्नलिखित में से कौन-सा कारक प्रभावित नहीं करेगा?

- Ans
- ☒ 1. फॉल्ट स्थिति में परिचालन (Operation under fault condition)
 - ☒ 2. आर्थिक कारण (Economic consideration)
 - ☒ 3. ट्रांसफार्मर का श्रेणी परिचालन (Series operation of the transformer)
 - ☒ 4. ट्रांसफार्मर का समानांतर परिचालन (Parallel operation of the transformer)

Question ID : 630680390208

Option 1 ID : 6306801521276

Option 2 ID : 6306801521275

Option 3 ID : 6306801521277

Option 4 ID : 6306801521274

Status : Answered

Chosen Option : 3

Q.12 In general, line supports should have the following properties:

- Ans
- ☒ 1. (i) High mechanical strength. (ii) Light in weight without the loss of mechanical strength. (iii) Cheap in cost and economical to maintain. (iv) Longer life.
 - ☒ 2. (i) Low mechanical strength. (ii) Light in weight without the loss of mechanical strength. (iii) High in cost and economical to maintain. (iv) Longer life.
 - ☒ 3. (i) Good appearance. (ii) Strong in weight without the loss of mechanical strength. (iii) High cost and economical to maintain. (iv) 5-year life.
 - ☒ 4. (i) Less mechanical strength. (ii) Strong in weight without the loss of mechanical strength. (iii) High cost and economical to maintain. (iv) Longer life.

Question ID : 630680401939

Option 1 ID : 6306801567502

Option 2 ID : 6306801567503

Option 3 ID : 6306801567504

Option 4 ID : 6306801567505

Status : Answered

Chosen Option : 1

Q.13 K-factor of a transformer is the measure of _____.

- Ans
- ☒ 1. ratio of change in output voltage from no load to full load
 - ☒ 2. ratio of output to input voltage
 - ☒ 3. ability of a transformer to handle non-linear loads
 - ☒ 4. maximum capacity of the transformer

Question ID : 630680227825

Option 1 ID : 630680883978

Option 2 ID : 630680883977

Option 3 ID : 630680883975

Option 4 ID : 630680883976

Status : Answered

Chosen Option : 2

Q.14 Vishal ranked 9th from the top and 16th from the bottom in his class. How many students in total are there in his class?

- Ans ☒ 1. 25
☒ 2. 28
☒ 3. 26
☒ 4. 24

Question ID : 630680359850

Option 1 ID : 6306801401345

Option 2 ID : 6306801401348

Option 3 ID : 6306801401346

Option 4 ID : 6306801401347

Status : Answered

Chosen Option : 4

Q.15 Why is the rated output of a transformer expressed in kVA instead of kW?

- Ans ☒ 1. Because the Ohmic loss depends on the transformer voltage
☒ 2. Because the total transformer heat loss is expressed in volt-ampere and is independent of the power factor
☒ 3. Because the core loss depends on the transformer current
☒ 4. Because the transformer operates at a very high efficiency

Question ID : 630680394253

Option 1 ID : 6306801537303

Option 2 ID : 6306801537304

Option 3 ID : 6306801537302

Option 4 ID : 6306801537305

Status : Answered

Chosen Option : 2

Q.16 Which of the following factors is NOT considered for effective and efficient distribution network design?

- Ans ☒ 1. Total network area and load density
☒ 2. Availability of backup power sources
☒ 3. Proper division of load among sub-network and transformers
☒ 4. Number of planned or scheduled outages

Question ID : 630680396753

Option 1 ID : 6306801547096

Option 2 ID : 6306801547098

Option 3 ID : 6306801547099

Option 4 ID : 6306801547097

Status : Answered

Chosen Option : 4

Q.17 In a pure L-C series circuit, the value of phase differences between voltages across the inductor and the capacitor will be _____.

- Ans
- ☒ 1. 30°
 - ☒ 2. zero
 - ☒ 3. 180°
 - ☒ 4. 90°

Question ID : 630680383099

Option 1 ID : 6306801493303

Option 2 ID : 6306801493306

Option 3 ID : 6306801493305

Option 4 ID : 6306801493304

Status : Answered

Chosen Option : 3

Q.18 100 nos. of $1\ \Omega$ linear bilateral resistances with negligible inductance are connected in parallel and the combination is fed by a 10 A constant current source. The power delivered by the source is:

- Ans
- ☒ 1. 10 W
 - ☒ 2. 100 W
 - ☒ 3. 1 W
 - ☒ 4. 0 W

Question ID : 630680334692

Option 1 ID : 6306801302025

Option 2 ID : 6306801302026

Option 3 ID : 6306801302027

Option 4 ID : 6306801302028

Status : Answered

Chosen Option : 3

Q.19 In armature reaction, concept of DC generator, the axis along which there is no EMF induced in the armature conductors is called _____.

- Ans
- ☒ 1. polar axis
 - ☒ 2. uniform axis
 - ☒ 3. magnetic neutral axis
 - ☒ 4. geometric neutral axis

Question ID : 630680390802

Option 1 ID : 6306801523646

Option 2 ID : 6306801523649

Option 3 ID : 6306801523647

Option 4 ID : 6306801523648

Status : Marked For Review

Chosen Option : 3

Q.20 In the construction of a DC generator, if a coil covers a span of 180 electrical degrees, then it is called a/an _____ coil..

- Ans ☒ 1. full pitch
☐ 2. back pitch
☐ 3. average pitch
☐ 4. front pitch

Question ID : 630680379031

Option 1 ID : 6306801477174

Option 2 ID : 6306801477172

Option 3 ID : 6306801477173

Option 4 ID : 6306801477171

Status : Answered

Chosen Option : 1

Section : Section 2

Q.1 The flux linked with a coil is given by $\phi(t) = (5t^2 + 4t + 3)$ weber. Calculate the magnitude of the emf induced in the coil at $t = 2$ seconds.

- Ans ☐ 1. 10 V
☒ 2. 24 V
☐ 3. 31 V
☐ 4. 28 V

Question ID : 630680335149

Option 1 ID : 6306801303816

Option 2 ID : 6306801303815

Option 3 ID : 6306801303813

Option 4 ID : 6306801303814

Status : Answered

Chosen Option : 2

Q.2 The least number which should be added to 11557 so that the sum is exactly divisible by 3, 4, 5, 6, 8, and 10 is:

- Ans ☐ 1. 87
☒ 2. 83
☐ 3. 81
☐ 4. 85

Question ID : 630680631294

Option 1 ID : 6306802471123

Option 2 ID : 6306802471122

Option 3 ID : 6306802471125

Option 4 ID : 6306802471124

Status : Answered

Chosen Option : 2

Q.3 In a RYB phase sequence, the EMF of phase B will _____.

- Ans ☒ 1. lag behind phase Y by 120°
- ☒ 2. lag behind phase Y by 240°
- ☒ 3. lead voltage of phase Y by 120°
- ☒ 4. lag behind phase R by 120°

Question ID : 630680334735

Option 1 ID : 6306801302200

Option 2 ID : 6306801302199

Option 3 ID : 6306801302198

Option 4 ID : 6306801302197

Status : Answered

Chosen Option : 1

Q.4 In the electrical installation of a factory, the length of flexible conduit used for connections between the terminal boxes of the motor and starter, the switches and motor should NOT exceed _____.

- Ans ☒ 1. 1 m
- ☒ 2. 1.5 m
- ☒ 3. 1.75 m
- ☒ 4. 1.25 m

Question ID : 630680333240

Option 1 ID : 6306801296233

Option 2 ID : 6306801296235

Option 3 ID : 6306801296236

Option 4 ID : 6306801296234

Status : Answered

Chosen Option : 3

Q.5 In a certain code language, 'VERY' is coded as '3618' and 'RIVE' is coded as '6438'. What is the code for 'I' in the given code language?

- Ans ☒ 1. 4
- ☒ 2. 8
- ☒ 3. 3
- ☒ 4. 6

Question ID : 630680533621

Option 1 ID : 6306802085961

Option 2 ID : 6306802085964

Option 3 ID : 6306802085962

Option 4 ID : 6306802085963

Status : Answered

Chosen Option : 1

Q.6 In the general principles of estimating, if any alterations are to be made in the tenders, it should be done after prior sanction from the _____.

- Ans ☒ 1. competent authority
- ☐ 2. engineering in-charge
- ☐ 3. ordering authority
- ☐ 4. purchase manager

Question ID : 630680333229

Option 1 ID : 6306801296191

Option 2 ID : 6306801296192

Option 3 ID : 6306801296190

Option 4 ID : 6306801296189

Status : Answered

Chosen Option : 1

Q.7 In the estimation and costing, all the papers signed by the parties to contract and bond together and sealed shall be deemed to form part of the contract bond is called _____.

- Ans ☐ 1. specification of contract
- ☐ 2. clause of contract
- ☒ 3. conditions of contract
- ☐ 4. claim of contract

Question ID : 630680333232

Option 1 ID : 6306801296204

Option 2 ID : 6306801296202

Option 3 ID : 6306801296201

Option 4 ID : 6306801296203

Status : Answered

Chosen Option : 1

Q.8 In the overhead LT distribution line, the supply voltage variation at the consumer's terminal should NOT exceed _____.

- Ans ☐ 1. 10%
- ☐ 2. 25%
- ☒ 3. 5%
- ☐ 4. 20%

Question ID : 630680333211

Option 1 ID : 6306801296118

Option 2 ID : 6306801296120

Option 3 ID : 6306801296117

Option 4 ID : 6306801296119

Status : Answered

Chosen Option : 3

Q.9 Select the most appropriate verb to fill in the blank.

The parents of all the newly admitted students were _____ about the availability of the college hostel.

- Ans ☒ 1. convened
☒ 2. conferred
☒ 3. converted
☒ 4. concerned

Question ID : 630680147441

Option 1 ID : 630680570546

Option 2 ID : 630680570548

Option 3 ID : 630680570549

Option 4 ID : 630680570547

Status : Answered

Chosen Option : 4

Q.10 Which of the following statements is true if lower half power frequency f_1 is 4 kHz and upper half power frequency f_2 is 16 kHz for a series RLC circuit?

1. Resonant frequency f_0 is 12 kHz.
2. Band width of resonant circuit is 12 kHz.

- Ans ☒ 1. Neither 1 nor 2
☒ 2. Only 2
☒ 3. Only 1
☒ 4. 1 and 2

Question ID : 630680334726

Option 1 ID : 6306801302164

Option 2 ID : 6306801302162

Option 3 ID : 6306801302161

Option 4 ID : 6306801302163

Status : Answered

Chosen Option : 2

Q.11 The headquarters of Central Power Research Institute (CPRI) is located in ____.

- Ans ☒ 1. Nashik
☒ 2. Bengaluru
☒ 3. Kolkata
☒ 4. Hyderabad

Question ID : 630680787727

Option 1 ID : 6306803086715

Option 2 ID : 6306803086712

Option 3 ID : 6306803086714

Option 4 ID : 6306803086713

Status : Answered

Chosen Option : 2

Q.12 सबस्टेशन संस्थापनों में, फीडर/उपकरण को दोनों बसों में से किसी एक से जोड़ने के लिए उपयोग किए जाने वाले स्विच को _____ कहा जाता है।

- Ans
- ☒ 1. सहायक स्विच (auxiliary switches)
 - ☒ 2. टर्मिनल स्विच (terminal switches)
 - ☒ 3. मुख्य स्विच (main switches)
 - ☒ 4. अन्तरक स्विच (transfer switches)

Question ID : 630680363611

Option 1 ID : 6306801416191

Option 2 ID : 6306801416192

Option 3 ID : 6306801416189

Option 4 ID : 6306801416190

Status : Answered

Chosen Option : 4

Q.13 Which state of India is known as the leader in wind energy generation?

- Ans
- ☒ 1. Gujarat
 - ☒ 2. Bihar
 - ☒ 3. Kerala
 - ☒ 4. Uttar Pradesh

Question ID : 630680373423

Option 1 ID : 6306801454963

Option 2 ID : 6306801454966

Option 3 ID : 6306801454964

Option 4 ID : 6306801454965

Status : Answered

Chosen Option : 1

Q.14 विद्युत अनुमान (estimation) और लागत निर्धारण (costing) में, यदि अनुमानकर्ता अपने कार्य को उचित ठहराना चाहता है, तो उसे अध्यापन (teaching) का ज्ञान होना चाहिए और साथ ही, उसके कथन _____ पर आधारित होने चाहिए।

- Ans
- ☒ 1. विलंबित क्रियाकलाप (delayed activity)
 - ☒ 2. विशेष परिस्थितियाँ (special circumstances)
 - ☒ 3. विश्वसनीय साक्ष्य (reliable evidences)
 - ☒ 4. परियोजना के समापन (completion of the project)

Question ID : 630680365720

Option 1 ID : 6306801424405

Option 2 ID : 6306801424406

Option 3 ID : 6306801424408

Option 4 ID : 6306801424407

Status : Answered

Chosen Option : 4

Q.15 In electrical installations, if all the LT distribution lines are made up of ACSR, then the service connections cable conductor must be made up of _____.

- Ans ☒ 1. aluminium
- ☒ 2. galvanised iron
- ☒ 3. copper
- ☒ 4. silver

Question ID : 630680333246
Option 1 ID : 6306801296260
Option 2 ID : 6306801296259
Option 3 ID : 6306801296257
Option 4 ID : 6306801296258
Status : Answered
Chosen Option : 3

Q.16 Which part of an energy audit report includes the summarised findings and recommendations?

- Ans ☒ 1. Executive summary
- ☒ 2. Conclusion
- ☒ 3. Introduction
- ☒ 4. Methodology

Question ID : 630680373419
Option 1 ID : 6306801454948
Option 2 ID : 6306801454949
Option 3 ID : 6306801454950
Option 4 ID : 6306801454947
Status : Answered
Chosen Option : 1

Q.17 ऊर्जा प्रवाह आरेख में तीर (arrow) की चौड़ाई _____ को दर्शाती है।

- Ans ☒ 1. ऊर्जा प्रवाह की गति
- ☒ 2. प्रणाली की ऊर्जा दक्षता
- ☒ 3. अंतरित की जा रही ऊर्जा की मात्रा
- ☒ 4. ऊर्जा स्रोत के तापमान

Question ID : 630680373416
Option 1 ID : 6306801454936
Option 2 ID : 6306801454935
Option 3 ID : 6306801454937
Option 4 ID : 6306801454938
Status : Answered
Chosen Option : 3

Q.18 एक kVAR नियंत्रक उपयोगिता लागत को _____ कम करने में सहायता करता है।

- Ans ☒ 1. वोल्टेज स्थिरता में सुधार द्वारा
- ☒ 2. प्रतिघाती शक्ति खपत को बढ़ावा देकर
- ☒ 3. शक्ति गुणक पेनल्टी से बचकर
- ☒ 4. वास्तविक विद्युत खपत में वृद्धि करके

Question ID : 630680373431
Option 1 ID : 6306801454995
Option 2 ID : 6306801454996
Option 3 ID : 6306801454997
Option 4 ID : 6306801454998

Q.19 In estimation and costing, the estimator should prepare the estimate with complete specifications. Which of the following specifications is NOT in the estimate procedure?

- Ans
- ☒ 1. Scheme of installations
 - ☒ 2. Type of wiring
 - ☒ 3. Quality of materials
 - ☒ 4. Purchase order

Question ID : 63068033238

Option 1 ID : 6306801296225

Option 2 ID : 6306801296226

Option 3 ID : 6306801296227

Option 4 ID : 6306801296228

Status : Answered

Chosen Option : 4

Q.20 In which year did SIDBI launch SIDBI Foundation for Micro Credit (SFMC)?

- Ans
- ☒ 1. 2004
 - ☒ 2. 1991
 - ☒ 3. 1995
 - ☒ 4. 1999

Question ID : 630680512417

Option 1 ID : 6306802002641

Option 2 ID : 6306802002638

Option 3 ID : 6306802002639

Option 4 ID : 6306802002640

Status : Answered

Chosen Option : 1

Section : Section 3

Q.1 यदि एक ट्रांजिस्टर, लोड लाइन के बीच में काम कर रहा है, तो धारा लब्धि में कमी _____ ।

- Ans
- ☒ 1. Q बिंदु को नीचे ले जाएगी
 - ☒ 2. Q बिंदु की गति में और इससे होगी
 - ☒ 3. Q बिंदु को ऊपर ले जाएगी
 - ☒ 4. Q बिंदु को नहीं बदलेगी

Question ID : 630680352154

Option 1 ID : 6306801370714

Option 2 ID : 6306801370715

Option 3 ID : 6306801370713

Option 4 ID : 6306801370716

Status : Answered

Chosen Option : 3

Q.2 Param invested ₹ P on compound interest at 12% per annum compounded half yearly.

If he received ₹1,48,877 after $1\frac{1}{2}$ years, then find the value of P.

- Ans
- ☐ 1. 1,72,000
 - ☒ 2. 1,25,000
 - ☐ 3. 1,55,275
 - ☐ 4. 2,00,545

Question ID : 630680533271

Option 1 ID : 6306802084570

Option 2 ID : 6306802084569

Option 3 ID : 6306802084572

Option 4 ID : 6306802084571

Status : Answered

Chosen Option : 2

Q.3 Which organisation is responsible for regulating the electricity sector under the Indian Electricity Act 2003?

- Ans
- ☒ 1. Central Electricity Regulatory Commission
 - ☐ 2. Ministry of Power
 - ☐ 3. Bureau of Energy Efficiency
 - ☐ 4. State Electricity Boards

Question ID : 630680373427

Option 1 ID : 6306801454980

Option 2 ID : 6306801454982

Option 3 ID : 6306801454979

Option 4 ID : 6306801454981

Status : Answered

Chosen Option : 1

Q.4 Select the pair which follows the same pattern as that followed by the two sets of pairs given below. Both pairs follow the same pattern.

ONJ : RQF
WOP : ZRL

- Ans
- ☐ 1. DLP : GNL
 - ☐ 2. PIM : SLH
 - ☐ 3. NGN : QJK
 - ☒ 4. KDO : NGK

Question ID : 630680567845

Option 1 ID : 6306802220364

Option 2 ID : 6306802220362

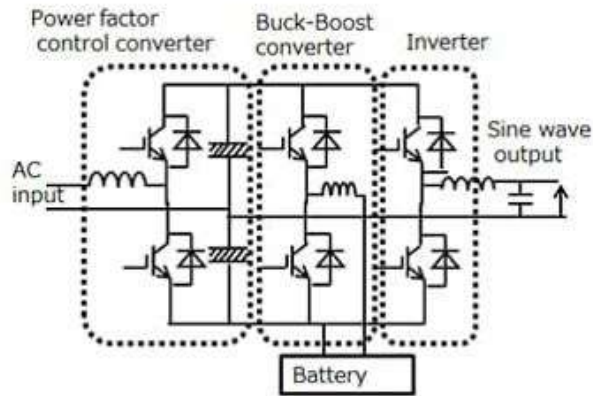
Option 3 ID : 6306802220361

Option 4 ID : 6306802220363

Status : Answered

Chosen Option : 1

Q.5 The circuit given below represents _____ using IGBT



- Ans
- ☒ 1. industrial motors
 - ☒ 2. refrigerators
 - ☒ 3. UPS
 - ☒ 4. air conditioners

Question ID : 630680365433

Option 1 ID : 6306801423280

Option 2 ID : 6306801423278

Option 3 ID : 6306801423279

Option 4 ID : 6306801423277

Status : Answered

Chosen Option : 3

Q.6 What is the financial year of india?

- Ans
- ☒ 1. 1st April to 31st March
 - ☒ 2. 1st January to 31st December
 - ☒ 3. 1st July to 30th June
 - ☒ 4. 1st March to 29th February

Question ID : 630680580479

Option 1 ID : 6306802270803

Option 2 ID : 6306802270802

Option 3 ID : 6306802270804

Option 4 ID : 6306802270805

Status : Answered

Chosen Option : 1

Q.7 In the SCR structure, the gate terminal is located _____.

- Ans
- ☒ 1. near the anode terminal
 - ☒ 2. near the cathode terminal
 - ☒ 3. in between the anode and cathode terminal
 - ☒ 4. below the anode terminal

Question ID : 630680352176

Option 1 ID : 6306801370801

Option 2 ID : 6306801370802

Option 3 ID : 6306801370803

Option 4 ID : 6306801370804

Status : Answered

Chosen Option : 2

Q.8 The effect of over-voltages of thyristor can be minimised by _____.

- Ans
- ☐ 1. semiconductor varistor
 - ☐ 2. insulator varistor
 - ☒ 3. metal oxide varistors
 - ☐ 4. capacitor

Question ID : 630680352163
Option 1 ID : 6306801370749
Option 2 ID : 6306801370752
Option 3 ID : 6306801370750
Option 4 ID : 6306801370751
Status : Answered
Chosen Option : 3

Q.9 The variable frequency drives are used in applications where:

- Ans
- ☐ 1. fixed speed operation is required
 - ☐ 2. rapid deceleration is necessary
 - ☒ 3. reduced energy consumption and improved process control are desired
 - ☐ 4. high starting torque is needed

Question ID : 630680373445
Option 1 ID : 6306801455051
Option 2 ID : 6306801455054
Option 3 ID : 6306801455053
Option 4 ID : 6306801455052
Status : Answered
Chosen Option : 3

Q.10 When the gate current (I_g) is increased, the forward breakover voltage _____.

- Ans
- ☐ 1. is increased
 - ☐ 2. remains same
 - ☒ 3. is reduced
 - ☐ 4. does not change

Question ID : 630680352175
Option 1 ID : 6306801370797
Option 2 ID : 6306801370798
Option 3 ID : 6306801370799
Option 4 ID : 6306801370800
Status : Answered
Chosen Option : 4

Q.11 According to Electricity Act, 2003, the number of members in the State Commission is _____.

- Ans
- ☐ 1. 4
 - ☐ 2. 2
 - ☐ 3. 5
 - ☒ 4. 3

Question ID : 630680787637
Option 1 ID : 6306803086362
Option 2 ID : 6306803086360
Option 3 ID : 6306803086363
Option 4 ID : 6306803086361
Status : Answered

Q.12 Identify the potential limitation of an energy efficient motor as compared to a standard motor.

- Ans ☒ 1. Greater heat generation
☒ 2. Lower power factor
☒ 3. Higher initial cost
☒ 4. Limited speed range

Question ID : 630680373453
Option 1 ID : 6306801455083
Option 2 ID : 6306801455085
Option 3 ID : 6306801455084
Option 4 ID : 6306801455086
Status : Answered
Chosen Option : 3

Q.13 How many types of magnets are there?

- Ans ☒ 1. 2
☒ 2. 5
☒ 3. 3
☒ 4. 4

Question ID : 630680340689
Option 1 ID : 6306801325197
Option 2 ID : 6306801325200
Option 3 ID : 6306801325198
Option 4 ID : 6306801325199
Status : Answered
Chosen Option : 3

Q.14 The function of a static AC circuit breaker is:

- Ans ☒ 1. to provide uninterrupted current in the circuit
☒ 2. to increase the flow of current
☒ 3. to break continuously flowing current through circuit
☒ 4. to decrease the voltage level

Question ID : 630680352129
Option 1 ID : 6306801370615
Option 2 ID : 6306801370616
Option 3 ID : 6306801370613
Option 4 ID : 6306801370614
Status : Answered
Chosen Option : 3

Q.15 The working principle of a MOSFET depends upon the MOS _____.

- Ans ☒ 1. current
☒ 2. resistor
☒ 3. insulator
☒ 4. capacitor

Question ID : 630680352149
Option 1 ID : 6306801370696
Option 2 ID : 6306801370693
Option 3 ID : 6306801370695
Option 4 ID : 6306801370694
Status : Answered

Q.16 Select the option that expresses the given sentence in passive voice.

Ritu will have completed the project of making postcards.

- Ans ☒ 1. The project of making postcards will be completed by Ritu.
- ☒ 2. The project of making postcards had been completed by Ritu.
- ☒ 3. The project of making postcards will have been completed by Ritu.
- ☒ 4. The project of making postcards will have being completed by Ritu.

Question ID : 630680531145

Option 1 ID : 6306802076400

Option 2 ID : 6306802076398

Option 3 ID : 6306802076397

Option 4 ID : 6306802076399

Status : Answered

Chosen Option : 3

Q.17 When does the Automatic Power Factor Controller (APFC) come into operation?

- Ans ☒ 1. Only during peak load time
- ☒ 2. During motor startup
- ☒ 3. During motor shutdown
- ☒ 4. Whenever power factor deviates from desired level

Question ID : 630680373443

Option 1 ID : 6306801455044

Option 2 ID : 6306801455043

Option 3 ID : 6306801455046

Option 4 ID : 6306801455045

Status : Answered

Chosen Option : 4

Q.18 How does power factor correction equipment help in reducing I²R loss?

- Ans ☒ 1. By reducing reactive power and hence current
- ☒ 2. By increasing harmonic distortion
- ☒ 3. By increasing current flow
- ☒ 4. By adding more copper to the system

Question ID : 630680373440

Option 1 ID : 6306801455032

Option 2 ID : 6306801455034

Option 3 ID : 6306801455031

Option 4 ID : 6306801455033

Status : Answered

Chosen Option : 1

Q.19 The resistance feature of a single-electron transistor does NOT depend on the _____.

- Ans ☒ 1. size of the nanoparticles
- ☒ 2. electron tunnelling
- ☒ 3. inductance
- ☒ 4. capacitance

Question ID : 630680352158

Option 1 ID : 6306801370729

Option 2 ID : 6306801370731

Option 3 ID : 6306801370732

Q.20 निम्नलिखित में से कौन-सी प्रकाश तकनीक को आमतौर पर बड़ी हुई दक्षता के लिए ऊर्जा-दक्ष प्रकाश स्रोत में एकीकृत किया जाता है?

- Ans ☒ 1. प्रकाश उत्सर्जक डायोड
- ☐ 2. तापदीप्त लैंप
- ☐ 3. प्रतिदीप्ति ट्यूब
- ☐ 4. उच्च तीव्रता वाले विसर्जन लैंप

Question ID : 630680373437

Option 1 ID : 6306801455019

Option 2 ID : 6306801455021

Option 3 ID : 6306801455020

Option 4 ID : 6306801455022

Status : Answered

Chosen Option : 1

Section : Section 4

Q.1 Find the average gate power dissipation (P_{gav}) when the maximum allowable gate power dissipation is (P_{gm}) = 10 kW with a duty cycle = 50 %.

- Ans ☐ 1. 10 KW
- ☐ 2. 2.5 KW
- ☐ 3. 7 KW
- ☒ 4. 5 KW

Question ID : 630680352188

Option 1 ID : 6306801370849

Option 2 ID : 6306801370851

Option 3 ID : 6306801370852

Option 4 ID : 6306801370850

Status : Answered

Chosen Option : 4

Q.2 A saves 20% of his monthly salary. If his monthly expenditure is ₹6,500, then his monthly savings is:

- Ans ☐ 1. ₹1,600
- ☐ 2. ₹1,500
- ☒ 3. ₹1,625
- ☐ 4. ₹1,675

Question ID : 630680565457

Option 1 ID : 6306802210787

Option 2 ID : 6306802210789

Option 3 ID : 6306802210786

Option 4 ID : 6306802210788

Status : Answered

Chosen Option : 3

Q.3 With the reduction in actual permittivity, the relative permittivity _____.

- Ans ☒ 1. increases
☒ 2. reduces
☒ 3. becomes zero
☒ 4. remains the same

Question ID : 630680340751

Option 1 ID : 6306801325446

Option 2 ID : 6306801325445

Option 3 ID : 6306801325447

Option 4 ID : 6306801325448

Status : Answered

Chosen Option : 2

Q.4 In a three-phase squirrel-cage induction motor, the increased starting torque can be obtained by:

- A) Using deep-bar rotors
 B) Increasing the frequency of operation
 C) Increasing the number of poles
 D) Using a double-cage rotor

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

Question ID : 630680339362

Option 1 ID : 6306801320017

Option 2 ID : 6306801320019

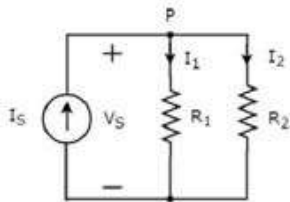
Option 3 ID : 6306801320018

Option 4 ID : 6306801320020

Status : Answered

Chosen Option : 4

Q.5 Calculate the value of current in I_2 . If $R_1=10$ ohms, $R_2=20$ ohms and $I_s=30$ A.



- Ans ☒ 1. 25A
☒ 2. 15A
☒ 3. 10A
☒ 4. 20A

Question ID : 630680340655

Option 1 ID : 6306801325064

Option 2 ID : 6306801325062

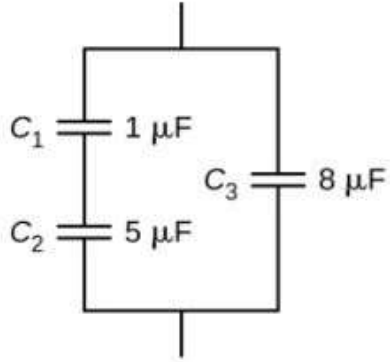
Option 3 ID : 6306801325061

Option 4 ID : 6306801325063

Status : Answered

Chosen Option : 3

Q.6 What will be the equivalent capacitance across the two ends of the given figure?



- Ans
- ☒ 1. $6/53 \mu F$
 - ☒ 2. $53/6 \mu F$
 - ☒ 3. $17/53 \mu F$
 - ☒ 4. $53/17 \mu F$

Question ID : 630680340754
 Option 1 ID : 6306801325458
 Option 2 ID : 6306801325457
 Option 3 ID : 6306801325460
 Option 4 ID : 6306801325459

Status : Answered

Chosen Option : 2

Q.7 What is the fusing factor if the fuse constant is 20; the diameter of the round wire is 0.5 mm and the current rating of the fusing element is 5 A?

- Ans
- ☒ 1. $4 * \left(\frac{1}{2}\right)^3$
 - ☒ 2. $4 * \left(\sqrt{\frac{1}{2}}\right)^3$
 - ☒ 3. $\frac{4}{3}$
 - ☒ 4. 0

Question ID : 630680218593
 Option 1 ID : 630680848280
 Option 2 ID : 630680848279
 Option 3 ID : 630680848282
 Option 4 ID : 630680848281

Status : Answered

Chosen Option : 2

Q.8 What is the Plant Load Factor in India (coal and lignite based) for the year 2009-10 in central sector?

Ans ☒ 1. 85.5%

☐ 2. 77.13%

☐ 3. 70.12%

☐ 4. 77.5%

Question ID : 630680787706

Option 1 ID : 6306803086631

Option 2 ID : 6306803086630

Option 3 ID : 6306803086629

Option 4 ID : 6306803086628

Status : Answered

Chosen Option : 2

Q.9 Which of the following represents the ohm's law of magnetic circuit?

Ans ☐ 1. $F = \phi^2 S$

☒ 2. $F = \phi S$

☐ 3. $F = \phi S^2$

☐ 4. $F = \phi/S$

Question ID : 630680340692

Option 1 ID : 6306801325211

Option 2 ID : 6306801325209

Option 3 ID : 6306801325212

Option 4 ID : 6306801325210

Status : Answered

Chosen Option : 2

Q.10 What type of ignition do diesel engines use?

Ans ☐ 1. Pre-ignition

☐ 2. Spark ignition

☐ 3. Turbulent ignition

☒ 4. Compression ignition

Question ID : 630680374445

Option 1 ID : 6306801458961

Option 2 ID : 6306801458960

Option 3 ID : 6306801458962

Option 4 ID : 6306801458959

Status : Answered

Chosen Option : 4

Q.11 Which of the following is an example of non-ohmic resistance?

- Ans ☒ 1. Tungsten
☒ 2. Diode
☒ 3. Copper
☒ 4. Carbon

Question ID : 630680340664
Option 1 ID : 6306801325097
Option 2 ID : 6306801325100
Option 3 ID : 6306801325098
Option 4 ID : 6306801325099
Status : Answered
Chosen Option : 2

Q.12 Which of the following represents the electric potential difference between two points?

- Ans ☒ 1. Work done / charge
☒ 2. Electric charge / time
☒ 3. Charge $\times$ work done
☒ 4. Work done / time

Question ID : 630680340760
Option 1 ID : 6306801325482
Option 2 ID : 6306801325483
Option 3 ID : 6306801325484
Option 4 ID : 6306801325481
Status : Answered
Chosen Option : 1

Q.13 The rupturing capacity of a fuse is expressed in terms of:

- Ans ☒ 1. MVA
☒ 2. kVA
☒ 3. A
☒ 4. kV

Question ID : 630680326184
Option 1 ID : 6306801268847
Option 2 ID : 6306801268846
Option 3 ID : 6306801268848
Option 4 ID : 6306801268845
Status : Answered
Chosen Option : 3

Q.14 7 बक्से, A, B, C, D, E, F और G, एक के ऊपर एक रखे गए हैं लेकिन जरूरी नहीं कि वे इसी क्रम में हों। F के नीचे केवल 2 बक्से रखे गए हैं। A और C के बीच ठीक 4 बक्से रखे गए हैं। न तो A और न ही C को सबसे ऊपरी स्थान पर रखा गया है। G को B के ठीक ऊपर रखा गया है। C को D के ऊपर किसी एक स्थान पर रखा गया है। B और E के बीच कितने बक्से रखे गए हैं?

- Ans
- ☒ 1. 3
 - ☒ 2. 1
 - ☒ 3. 2
 - ☒ 4. 0

Question ID : 630680394555
 Option 1 ID : 6306801538509
 Option 2 ID : 6306801538507
 Option 3 ID : 6306801538508
 Option 4 ID : 6306801538506
 Status : Answered
 Chosen Option : 3

Q.15 Which of the following devices is used to reduce currents and voltages to lower values and to isolate protective relays from high voltages of the power system?

- Ans
- ☒ 1. Protective relay
 - ☒ 2. Circuit breaker
 - ☒ 3. Transducers (CTs and VTs)
 - ☒ 4. Buchholz relay

Question ID : 630680218599
 Option 1 ID : 630680848305
 Option 2 ID : 630680848303
 Option 3 ID : 630680848304
 Option 4 ID : 630680848306
 Status : Answered
 Chosen Option : 3

Q.16 A sentence has been divided into segments and given below. While the first and the last segments (O and T) are in the correct order, the segments in between (P, Q, R, S) are in random order. Select the option that arranges the segments in the correct order to form a meaningful and coherent sentence.

O: Crossing
 P: with your eyes
 Q: the street
 R: is the height
 S: closed
 T: of stupidity.

- Ans
- ☒ 1. R, S, P, Q
 - ☒ 2. Q, S, P, R
 - ☒ 3. Q, P, S, R
 - ☒ 4. P, S, Q, R

Question ID : 630680328421
 Option 1 ID : 6306801277653
 Option 2 ID : 6306801277656
 Option 3 ID : 6306801277654
 Option 4 ID : 6306801277655
 Status : Answered
 Chosen Option : 3

Q.17 What is the formula of finding the final value of any time varying function $f(t)$?

Ans

☒ 1. $f(\infty) = \lim_{s \rightarrow \infty} sF(s)$

☒ 2. $f(\infty) = \lim_{t \rightarrow \infty} tf(t)$

☒ 3. $f(\infty) = \lim_{s \rightarrow 0} sF(s)$

☒ 4. $f(\infty) = \lim_{t \rightarrow 0} f(t)$

Question ID : 630680386989

Option 1 ID : 6306801508668

Option 2 ID : 6306801508667

Option 3 ID : 6306801508666

Option 4 ID : 6306801508669

Status : Answered

Chosen Option : 3

Q.18 एथेनॉल उत्पादन के किण्वन चरण के दौरान होने वाली मुख्य जैव रासायनिक प्रक्रिया क्या है?

Ans

☒ 1. दहन

☒ 2. किण्वन

☒ 3. ऑक्सीकरण

☒ 4. प्रकाश संश्लेषण

Question ID : 630680426246

Option 1 ID : 6306801663089

Option 2 ID : 6306801663090

Option 3 ID : 6306801663088

Option 4 ID : 6306801663087

Status : Answered

Chosen Option : 2

Q.19 The official language of Karnataka is which of the following?

Ans

☒ 1. Malayalam

☒ 2. Marathi

☒ 3. Tamil

☒ 4. Kannada

Question ID : 630680745980

Option 1 ID : 6306802924097

Option 2 ID : 6306802924098

Option 3 ID : 6306802924096

Option 4 ID : 6306802924095

Status : Answered

Chosen Option : 4

Q.20 What is the similarity between series and parallel resonance?

- Ans ☒ 1. The power factor of the resonating circuit is zero.
- ☒ 2. The power factor of the resonating circuit is unity.
- ☒ 3. The impedance of the resonating circuit is minimum.
- ☒ 4. The current through the resonating circuit is maximum.

Question ID : 630680386969
Option 1 ID : 6306801508586
Option 2 ID : 6306801508587
Option 3 ID : 6306801508588
Option 4 ID : 6306801508589
Status : Answered
Chosen Option : 2

Section : Section 5

Q.1 What is the main purpose of the load in a drive system?

- Ans ☒ 1. To process and analyse data
- ☒ 2. To regulate the control unit's operation
- ☒ 3. To provide input signals to the control unit
- ☒ 4. To consume power and perform the desired task

Question ID : 630680381592
Option 1 ID : 6306801487301
Option 2 ID : 6306801487300
Option 3 ID : 6306801487302
Option 4 ID : 6306801487299
Status : Answered
Chosen Option : 2

Q.2 What is the role of the welding transformer in the AC welding machine?

- Ans ☒ 1. To convert AC to DC
- ☒ 2. To step down the voltage
- ☒ 3. To increase the welding speed
- ☒ 4. To step up the voltage

Question ID : 630680389653
Option 1 ID : 6306801519071
Option 2 ID : 6306801519070
Option 3 ID : 6306801519073
Option 4 ID : 6306801519072
Status : Answered
Chosen Option : 2

Q.3 In which of the following years did Dr. BR Ambedkar organise the Kalaram Temple entry movement at Nasik?

- Ans ☒ 1. 1924
☒ 2. 1935
☒ 3. 1920
☒ 4. 1930

Question ID : 630680282958

Option 1 ID : 6306801099964

Option 2 ID : 6306801099966

Option 3 ID : 6306801099963

Option 4 ID : 6306801099965

Status : Answered

Chosen Option : 2

Q.4 Which of the following statements are correct about dielectric heating?

- I)The heating temperature in dielectric heating is controlled by varying applied frequency and voltage.
II)The heating temperature in dielectric heating is controlled only by varying applied voltage.
III)The heat generated by dielectric heating is non-uniform over the work piece.
IV)The heat generated by dielectric heating is uniform over the work piece.

- Ans ☒ 1. Statements I and IV
☒ 2. Statements I and III
☒ 3. Statements II and IV
☒ 4. Statements II and III

Question ID : 630680389650

Option 1 ID : 6306801519058

Option 2 ID : 6306801519059

Option 3 ID : 6306801519061

Option 4 ID : 6306801519060

Status : Answered

Chosen Option : 2

Q.5 Which of the following statements is NOT correct about resistance ovens?

- Ans ☒ 1. Resistance ovens use electromagnetic waves for heating.
☒ 2. Resistance ovens use both convection and radiation heating methods.
☒ 3. The heating element in resistance ovens is made of a material with high electrical resistance.
☒ 4. Resistance ovens work based on the principle of direct resistance heating.

Question ID : 630680381618

Option 1 ID : 6306801487404

Option 2 ID : 6306801487405

Option 3 ID : 6306801487403

Option 4 ID : 6306801487406

Status : Answered

Chosen Option : 2

Q.6 How many connector guns are used for a Slow/Moderate type Electric Vehicle charger, that is for Bharat DC-001 (15 kW) type?

- Ans
- ☐ 1. 2 connector guns
 - ☐ 2. 3 connector guns
 - ☒ 3. 1 connector gun
 - ☐ 4. 4 connector guns

Question ID : 630680787709

Option 1 ID : 6306803086641

Option 2 ID : 6306803086642

Option 3 ID : 6306803086640

Option 4 ID : 6306803086643

Status : Answered

Chosen Option : 2

Q.7 Which of the following statements are correct about direct arc furnace?

- I) Electrodes were made up of carbon or graphite.
- II) The heat is transferred from the electric arc to the metal charge by conduction and radiation.
- III) The heat is transferred from the electric arc to the metal charge by radiation only.
- IV) Electrodes were made up of insulating materials.

- Ans
- ☐ 1. II and IV
 - ☐ 2. I and III
 - ☒ 3. I and II
 - ☐ 4. III and IV

Question ID : 630680381609

Option 1 ID : 6306801487369

Option 2 ID : 6306801487368

Option 3 ID : 6306801487367

Option 4 ID : 6306801487370

Status : Answered

Chosen Option : 2

Q.8 What is the relation between the number of relays and the reliability of a protective scheme?

- Ans
- ☐ 1. The reliability is dependent on the type of relays used.
 - ☐ 2. Greater number of relays increases the reliability.
 - ☒ 3. Lesser number of relays increases the reliability.
 - ☐ 4. The number of relays has no impact on the reliability.

Question ID : 630680326209

Option 1 ID : 6306801268947

Option 2 ID : 6306801268945

Option 3 ID : 6306801268946

Option 4 ID : 6306801268948

Status : Answered

Chosen Option : 1

Q.9 What is selectivity in the context of protective relays?

- Ans ☒ 1. The ability of a protective relay to detect faults in both its own zone and other zones
- ☒ 2. The ability of a protective relay to detect faults within its own zone
- ☒ 3. The ability of a protective relay to prevent faults from occurring
- ☒ 4. The ability of a protective relay to detect faults in other zones

Question ID : 630680218640
Option 1 ID : 630680848469
Option 2 ID : 630680848467
Option 3 ID : 630680848470
Option 4 ID : 630680848468
Status : Answered
Chosen Option : 2

Q.10 The total response of any discrete time system can be decomposed as ____.

- Ans ☒ 1. Total Response = Zero-output response
- ☒ 2. Total Response = Zero-state response + Zero-input response
- ☒ 3. Total Response = Impulse response + Ramp response
- ☒ 4. Total Response = Impulse response + Step response

Question ID : 630680334078
Option 1 ID : 6306801299587
Option 2 ID : 6306801299588
Option 3 ID : 6306801299586
Option 4 ID : 6306801299585
Status : Answered
Chosen Option : 2

Q.11 The maximum demand controller helps in managing _____ in the electrical system.

- Ans ☒ 1. peak load demand
- ☒ 2. voltage stability
- ☒ 3. harmonic distortion
- ☒ 4. real power consumption

Question ID : 630680373432
Option 1 ID : 6306801454999
Option 2 ID : 6306801455001
Option 3 ID : 6306801455002
Option 4 ID : 6306801455000
Status : Answered
Chosen Option : 2

Q.12 Which of the following approaches is adopted for dealing with difficulties in the differential over-current protection of busbars that may cause relays to operate incorrectly owing to differences in the magnetic state of iron-cored current transformers?

- Ans ☒ 1. Current graded protection
☒ 2. Current balance differential protection
☒ 3. Voltage differential protection
☒ 4. Frame leakage protection of fault bus

Question ID : 630680359413

Option 1 ID : 6306801399619

Option 2 ID : 6306801399620

Option 3 ID : 6306801399617

Option 4 ID : 6306801399618

Status : Answered

Chosen Option : 2

Q.13 चमक के संबंध में निम्नलिखित में से कौन-से कथन सही हैं?

- I) जब प्रकाश का कोई मंद स्रोत सीधे दृष्टि रेखा में होता है, तो यह चमक उत्पन्न कर सकता है।
 II) चमक से सुग्राहिता बढ़ जाएगी।
 III) चमक से सुग्राहिता कम हो जाएगी।
 IV) जब प्रकाश का कोई बहुत उज्ज्वल स्रोत सीधे दृष्टि रेखा में होता है, तो यह चमक पैदा कर सकता है।

- Ans ☒ 1. कथन I और II
☒ 2. कथन I और III
☒ 3. कथन III और IV
☒ 4. कथन II और IV

Question ID : 630680389667

Option 1 ID : 6306801519126

Option 2 ID : 6306801519127

Option 3 ID : 6306801519129

Option 4 ID : 6306801519128

Status : Marked For Review

Chosen Option : 3

Q.14 For a parallel circuit, voltage $V = (6+j8)$ and current $I = (3-j4)$. Then, power $V \times I =$ _____.

- Ans ☒ 1. $18 + j24$
☒ 2. $18 - j24$
☒ 3. $50 + j32$
☒ 4. $50 + j0$

Question ID : 630680334703

Option 1 ID : 6306801302070

Option 2 ID : 6306801302069

Option 3 ID : 6306801302072

Option 4 ID : 6306801302071

Status : Answered

Chosen Option : 4

Q.15 For the incipient type of fault in transformers, what is the most common type of protection used?

- Ans ☒ 1. Buchholz relay
- ☐ 2. Overload protection
- ☐ 3. Restricted earth fault protection
- ☐ 4. Differential protection

Question ID : 630680326200

Option 1 ID : 6306801268909

Option 2 ID : 6306801268912

Option 3 ID : 6306801268911

Option 4 ID : 6306801268910

Status : Answered

Chosen Option : 1

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

Chaotic

- Ans ☐ 1. Strange
- ☒ 2. Harmonious
- ☐ 3. Unpleasant
- ☐ 4. Tiresome

Question ID : 630680553367

Option 1 ID : 6306802163380

Option 2 ID : 6306802163383

Option 3 ID : 6306802163382

Option 4 ID : 6306802163381

Status : Answered

Chosen Option : 2

Q.17 Aanya started a business by investing some money, and Manya invested ₹3,500 more than Aanya did. Aanya remained in business for 6 months, and Manya remained in business for 2 months more than Aanya. Out of the total profit of ₹18,000, Manya got ₹3,000 more than Aanya. Find the capital invested by Aanya.

- Ans ☐ 1. ₹45,000
- ☐ 2. ₹63,000
- ☒ 3. ₹70,000
- ☐ 4. ₹58,000

Question ID : 630680526273

Option 1 ID : 6306802057168

Option 2 ID : 6306802057170

Option 3 ID : 6306802057171

Option 4 ID : 6306802057169

Status : Answered

Chosen Option : 3

Q.18 A, B, C, D, E, F and G are sitting around a circular table facing the centre. E sits third to the left of F. D sits second to the left of B. Only F sits between C and D. G is not an immediate neighbour of E. How many people sit between A and D when counted from the right of A?

- Ans ☒ 1. One
☒ 2. Two
☒ 3. Four
☒ 4. Three

Question ID : 630680532574
Option 1 ID : 6306802081952
Option 2 ID : 6306802081953
Option 3 ID : 6306802081955
Option 4 ID : 6306802081954
Status : Answered
Chosen Option : 2

Q.19 What is the rated peak short-circuit current of an isolator?

- Ans ☒ 1. The maximum current that the isolator can handle during a power swing
☒ 2. The maximum current that the isolator can handle during a short-circuit fault
☒ 3. The maximum current that the isolator can handle during a lightning strike
☒ 4. The maximum current that the isolator can handle during normal operation

Question ID : 630680218617
Option 1 ID : 630680848377
Option 2 ID : 630680848376
Option 3 ID : 630680848378
Option 4 ID : 630680848375
Status : Answered
Chosen Option : 3

Q.20 In projection welding, the pressure applied during welding is essential for _____.

- Ans ☒ 1. reducing the speed of welding process
☒ 2. creating the projections on the work pieces
☒ 3. eliminating the electrical arc
☒ 4. achieving a strong and reliable weld joint

Question ID : 630680381626
Option 1 ID : 6306801487436
Option 2 ID : 6306801487435
Option 3 ID : 6306801487437
Option 4 ID : 6306801487438
Status : Answered
Chosen Option : 4