

# **MPPGCL JE (Electrical)**

**Previous Year Paper**  
**28 Apr, 2023 Shift 1**

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**M. P. Power Generating Company Limited**



75  
आज़ादी का  
अमृत महोत्सव

Recruitment on various posts in State Power Sector Companies of M.P.

|                  |                                                                                                    |
|------------------|----------------------------------------------------------------------------------------------------|
| Participant ID   |                                                                                                    |
| Participant Name |                                                                                                    |
| Test Center Name |                                                                                                    |
| Test Date        | 28/04/2023                                                                                         |
| Test Time        | 8:30 AM - 10:30 AM                                                                                 |
| Subject          | Junior Engineer Assistant Manager (Plant Distribution Transmission Technical) (Electrical) Trainee |

Section : Numerical Ability

Q.1

If  $y = \sqrt{6 + \sqrt{6 + \sqrt{6 + \dots + \infty}}}$ , then the positive value of y is:

- Ans
- ☒ 1. 2
  - ☒ 2. 6
  - ☒ 3. 3
  - ☒ 4. 5

Question ID : 630680212448

Option 1 ID : 630680823935

Option 2 ID : 630680823938

Option 3 ID : 630680823936

Option 4 ID : 630680823937

Status : Answered

Chosen Option : 3

Q.2 A can do a piece of work in 24 days that B can do in 36 days. They begin together, but 4 days before the completion of the work, B leaves off. The total number of days to complete the work is:

- Ans
- ☒ 1. 8
  - ☒ 2. 12
  - ☒ 3. 16
  - ☒ 4. 10

Question ID : 630680212451

Option 1 ID : 630680823947

Option 2 ID : 630680823949

Option 3 ID : 630680823950

Option 4 ID : 630680823948

Status : Answered

Chosen Option : 3

**Q.3** A trader sells a toy for ₹1,134 after giving a 16% discount on its list price. Had he not given the discount, he would have earned a profit of 25%. If he decides to sell the toy for ₹1,179.36, then his profit percentage is:

- Ans
- ☒ 1. 7.5%
  - ☒ 2. 8.4%
  - ☒ 3. 9.2%
  - ☒ 4. 8.5%

Question ID : 630680212449

Option 1 ID : 630680823939

Option 2 ID : 630680823940

Option 3 ID : 630680823942

Option 4 ID : 630680823941

Status : Answered

Chosen Option : 3

**Q.4** A solid is in the form of a right circular cylinder with hemispherical ends. The total length of the solid is 42 cm. The diameter of the cylinder is half of its height. The surface area (in  $\text{cm}^2$ ) of the solid is:

- Ans
- ☒ 1. 1824
  - ☒ 2. 1876
  - ☒ 3. 1806
  - ☒ 4. 1848

Question ID : 630680212452

Option 1 ID : 630680823952

Option 2 ID : 630680823954

Option 3 ID : 630680823951

Option 4 ID : 630680823953

Status : Answered

Chosen Option : 2

**Q.5** A man borrowed ₹15,400 at 15% per annum compound interest. At the end of every year, he pays ₹2,500 as part repayment. How much (in ₹) does he still owe after three such instalments?

- Ans
- ☒ 1. 14,740.225
  - ☒ 2. 14,870.725
  - ☒ 3. 14,650.525
  - ☒ 4. 14,900.252

Question ID : 630680212450

Option 1 ID : 630680823944

Option 2 ID : 630680823945

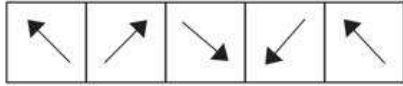
Option 3 ID : 630680823943

Option 4 ID : 630680823946

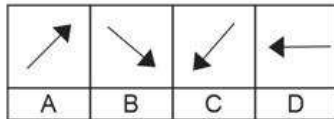
Status : Answered

Chosen Option : 2

Q.1 Select the figure from the answer figure that will come next in the following series.



Answer Figure



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

Question ID : 630680212456

Option 1 ID : 630680823970

Option 2 ID : 630680823969

Option 3 ID : 630680823968

Option 4 ID : 630680823967

Status : Answered

Chosen Option : 4

Q.2 If '%' is the mother of '#', '@' is the father of the '&', 'S' is the father of '%' and '&' is the brother of '#', then who is the father of '#'?

- Ans
- ☒ 1. &
  - ☒ 2. @
  - ☒ 3. #
  - ☒ 4. S

Question ID : 630680212454

Option 1 ID : 630680823961

Option 2 ID : 630680823959

Option 3 ID : 630680823960

Option 4 ID : 630680823962

Status : Answered

Chosen Option : 2



**Q.3** If Krishna is the sister of Mohan, Mohan is the son of Geeta and Geeta is the wife of Kanti, then what is the relationship between Krishna and Kanti?

- Ans**
- ☒ 1. Brother and sister
  - ☐ 2. Daughter and father
  - ☒ 3. Father and son
  - ☒ 4. Husband and wife

Question ID : 630680212455

Option 1 ID : 630680823966

Option 2 ID : 630680823965

Option 3 ID : 630680823964

Option 4 ID : 630680823963

Status : Answered

Chosen Option : 2

**Q.4** Select the option that is related to the third term in the same way as the second term is related to the first term.

WISE : YKUG :: ROOF : ?

- Ans**
- ☒ 1. AFFT
  - ☒ 2. ZCCT
  - ☒ 3. MIIT
  - ☐ 4. TQQH

Question ID : 630680212453

Option 1 ID : 630680823955

Option 2 ID : 630680823956

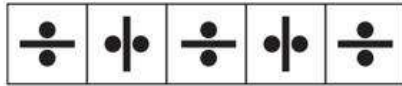
Option 3 ID : 630680823957

Option 4 ID : 630680823958

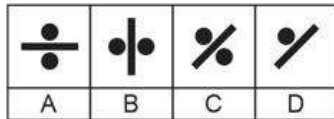
Status : Answered

Chosen Option : 4

Q.5 Select the figure from the answer figure that will come next in the following series.



Answer Figure



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

Question ID : 630680212457

Option 1 ID : 630680823971

Option 2 ID : 630680823973

Option 3 ID : 630680823972

Option 4 ID : 630680823974

Status : Answered

Chosen Option : 3

Section : General Knowledge Awareness

Q.1 The Himalayan mountain range is defined as the \_\_\_\_\_ frontier of India.

- Ans
- ☒ 1. Western
  - ☒ 2. Eastern
  - ☒ 3. Northern
  - ☒ 4. Southern

Question ID : 630680212461

Option 1 ID : 630680823989

Option 2 ID : 630680823988

Option 3 ID : 630680823987

Option 4 ID : 630680823990

Status : Answered

Chosen Option : 3

Q.2 Who took charge as the 25th Chief Election Commissioner at the Election Commission of India?

- Ans
- ☐ 1. Dharmendra Sharma
  - ☐ 2. Anup Chandra Pandey
  - ☐ 3. Arun Goel
  - ☒ 4. Rajiv Kumar

Question ID : 630680212462  
Option 1 ID : 630680823993  
Option 2 ID : 630680823991  
Option 3 ID : 630680823994  
Option 4 ID : 630680823992  
Status : Answered  
Chosen Option : 2

Q.3 \_\_\_\_\_ is a type of oligopoly, characterised by two primary corporations operating in a market or industry, producing the same or similar goods and services.

- Ans
- ☐ 1. Perfect competition
  - ☒ 2. Duopoly
  - ☐ 3. Monopsony
  - ☐ 4. Monopoly

Question ID : 630680212460  
Option 1 ID : 630680823986  
Option 2 ID : 630680823984  
Option 3 ID : 630680823985  
Option 4 ID : 630680823983  
Status : Answered  
Chosen Option : 3

Q.4 Which sports person had won the Arjuna Award for outstanding performance in Fencing in the year 2021?

- Ans
- ☐ 1. Karan Singh
  - ☒ 2. Bhavani Devi Chadalavada Anandha Sundhararaman
  - ☐ 3. Bhakti Sharma
  - ☐ 4. Tanishka Khatri

Question ID : 630680212458  
Option 1 ID : 630680823977  
Option 2 ID : 630680823975  
Option 3 ID : 630680823978  
Option 4 ID : 630680823976  
Status : Answered  
Chosen Option : 2

Q.5 Which founder member of the Congress Socialist Party and an active participant in the Quit India Movement left politics after independence during the 19th century?

- Ans
- ☒ 1. AK Fazlul Haq
  - ☒ 2. Acharya Narendra Dev
  - ☒ 3. Achyut S Patwardhan
  - ☒ 4. Amir Chand

Question ID : 630680212459

Option 1 ID : 630680823981

Option 2 ID : 630680823982

Option 3 ID : 630680823980

Option 4 ID : 630680823979

Status : Answered

Chosen Option : 3

Section : General English

Q.1 Sentences of a paragraph are given below in jumbled order. Arrange the sentences in the correct order to form a meaningful and coherent paragraph.

- A. The scheduled stop of the train is only for two minutes.
- B. And I imagine the clock ticking as I try to open the door of the AC coach.
- C. At quarter past midnight, with no announcement, my train sneaks in.
- D. I find that it has been locked from inside, and there is no TTE around to help open the door.

- Ans
- ☒ 1. CABD
  - ☒ 2. DBCA
  - ☒ 3. CDBA
  - ☒ 4. ABCD

Question ID : 630680212463

Option 1 ID : 630680823996

Option 2 ID : 630680823997

Option 3 ID : 630680823998

Option 4 ID : 630680823995

Status : Answered

Chosen Option : 1

Q.2 Select the most appropriate option to fill in the blanks.

We went to see \_\_\_\_ play. Finally, much to my dismay, \_\_\_\_ play ended.

- Ans
- ☒ 1. a; the
  - ☒ 2. an; a
  - ☒ 3. the; a
  - ☒ 4. a; a

Question ID : 630680212465

Option 1 ID : 630680824006

Option 2 ID : 630680824004

Option 3 ID : 630680824005

Option 4 ID : 630680824003

Status : Answered

Chosen Option : 3

**Q.3** Select the option that can be used as a one-word substitute for the given group of words.

The arrangement of events or dates in the order of their occurrence

- Ans
- ☐ 1. Geology
  - ☐ 2. Morphology
  - ☒ 3. Chronology
  - ☐ 4. Phonology

Question ID : 630680212467

Option 1 ID : 630680824013

Option 2 ID : 630680824011

Option 3 ID : 630680824012

Option 4 ID : 630680824014

Status : Answered

Chosen Option : 2

**Q.4** Select the INCORRECTLY spelt word.

- Ans
- ☐ 1. Commercial
  - ☐ 2. Proverbial
  - ☐ 3. Financial
  - ☒ 4. Profesional

Question ID : 630680212466

Option 1 ID : 630680824008

Option 2 ID : 630680824010

Option 3 ID : 630680824007

Option 4 ID : 630680824009

Status : Answered

Chosen Option : 4

**Q.5** Select the most appropriate option to fill in the blanks.

I realised how art could cast a spell \_\_\_\_\_ us, and I did not want to come out \_\_\_\_\_ that spell.

- Ans
- ☐ 1. in; on
  - ☐ 2. by; in
  - ☐ 3. of; on
  - ☒ 4. on; of

Question ID : 630680212464

Option 1 ID : 630680824001

Option 2 ID : 630680824002

Option 3 ID : 630680823999

Option 4 ID : 630680824000

Status : Answered

Chosen Option : 2

**Q.1** In which of the following districts is the registered office of the Madhya Pradesh Power Generating Company Ltd. situated?

- Ans
- ☐ 1. Indore
  - ☒ 2. Jabalpur
  - ☐ 3. Bhopal
  - ☐ 4. Rewa

Question ID : 630680212469

Option 1 ID : 630680824021

Option 2 ID : 630680824020

Option 3 ID : 630680824019

Option 4 ID : 630680824022

Status : Answered

Chosen Option : 2

**Q.2** What is the name of the mobile application for power department related services and solutions of the complaints in central Madhya Pradesh region, as per annual report 2022-23?

- Ans
- ☐ 1. Urja Sarthi App
  - ☐ 2. UPAY App
  - ☒ 3. Smart Bijlee App
  - ☐ 4. Urjas App

Question ID : 630680212468

Option 1 ID : 630680824018

Option 2 ID : 630680824016

Option 3 ID : 630680824015

Option 4 ID : 630680824017

Status : Answered

Chosen Option : 3

**Q.3** Which award scheme was initiated by Madhya Pradesh government to give recognition to the industrial units/commercial establishment and professionals working in the field of energy management in the year 2022?

- Ans
- ☐ 1. MP Energy Awards
  - ☐ 2. MP Energy Achievements Awards
  - ☒ 3. MP Energy Conservation Awards
  - ☐ 4. MP Energy Conservation and Management Awards

Question ID : 630680212470

Option 1 ID : 630680824026

Option 2 ID : 630680824023

Option 3 ID : 630680824025

Option 4 ID : 630680824024

Status : Answered

Chosen Option : 4

**Q.4** When was the 'Chief Minister Electricity Bill Me Rahat Yojana 2022' scheme launched in Madhya Pradesh in view of the Covid-19 pandemic?

- Ans**
- ☒ 1. March 2022
  - ☒ 2. August 2022
  - ☒ 3. April 2022
  - ☒ 4. January 2022

Question ID : 630680212471  
Option 1 ID : 630680824027  
Option 2 ID : 630680824030  
Option 3 ID : 630680824029  
Option 4 ID : 630680824028  
Status : Answered  
Chosen Option : 2

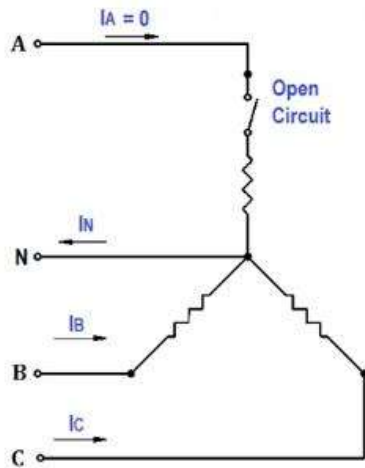
**Q.5** Who is the Principal Secretary of Energy Department, Government of Madhya Pradesh as of March 2023?

- Ans**
- ☒ 1. Sanjay Dubey
  - ☒ 2. Ranjeet Singh Chauhan
  - ☒ 3. Neeraj Agarwal
  - ☒ 4. VK Gour

Question ID : 630680212472  
Option 1 ID : 630680824034  
Option 2 ID : 630680824032  
Option 3 ID : 630680824033  
Option 4 ID : 630680824031  
Status : Answered  
Chosen Option : 2

Section : Discipline Related

Q.1



Which of the following is true for the three-phase load shown in the figure?

- Ans
- ☒ 1. Balanced load
  - ☒ 2. Unbalanced load, and  $I_N = I_A$
  - ☒ 3. Unbalanced load, and  $I_N = I_B + I_C$
  - ☒ 4. Unbalanced load, and  $I_N = I_B + I_C + I_A$

Question ID : 630680212488

Option 1 ID : 630680824095

Option 2 ID : 630680824097

Option 3 ID : 630680824096

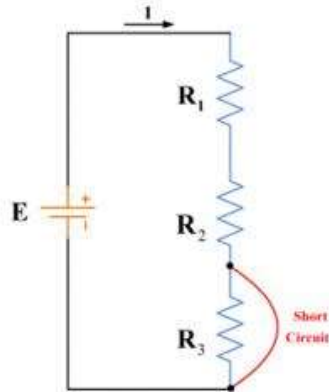
Option 4 ID : 630680824098

Status : Answered

Chosen Option : 2



Q.2



In the circuit shown above, which of the following relations is correct?

- Ans
- ☒ 1.  $E = I (R_1 + R_2 - R_3)$
  - ☒ 2.  $E = I (R_1 + R_2 + R_3)$
  - ☒ 3.  $E = I (R_1 + R_2)$
  - ☒ 4.  $E = I (R_1 - R_2)$

Question ID : 630680212474

Option 1 ID : 630680824042

Option 2 ID : 630680824040

Option 3 ID : 630680824039

Option 4 ID : 630680824041

Status : Answered

Chosen Option : 3

Q.3 Which of the following common data points is required to calculate the demand factor and load factor?

- Ans
- ☒ 1. Average load
  - ☒ 2. Connected load
  - ☒ 3. Contract load
  - ☒ 4. Maximum demand

Question ID : 630680212511

Option 1 ID : 630680824189

Option 2 ID : 630680824187

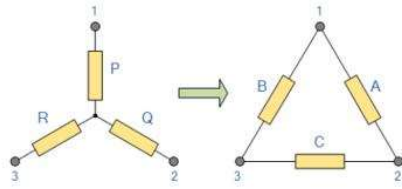
Option 3 ID : 630680824190

Option 4 ID : 630680824188

Status : Answered

Chosen Option : 4

Q.4



In the star-delta transformation shown in the figure, if  $P = 150\ \Omega$ ,  $Q = 180\ \Omega$  and  $R = 60\ \Omega$ , then  $A = ?$

- Ans
- ☒ 1.  $260\ \Omega$
  - ☒ 2.  $470\ \Omega$
  - ☒ 3.  $780\ \Omega$
  - ☒ 4.  $312\ \Omega$

Question ID : 630680212481

Option 1 ID : 630680824069

Option 2 ID : 630680824067

Option 3 ID : 630680824070

Option 4 ID : 630680824068

Status : Answered

Chosen Option : 3

Q.5 Four resistors  $R_1, R_2, R_3$  and  $R_4$  are connected in series across a 100 V source such that  $R_1 < R_2 < R_3 < R_4$ . The maximum voltage drop occurs at which of the following resistors?

- Ans
- ☒ 1.  $R_4$
  - ☒ 2.  $R_1$
  - ☒ 3.  $R_3$
  - ☒ 4.  $R_2$

Question ID : 630680212475

Option 1 ID : 630680824046

Option 2 ID : 630680824043

Option 3 ID : 630680824045

Option 4 ID : 630680824044

Status : Answered

Chosen Option : 1

Q.6 Which of the following energy-saving projects receives a high priority for implementation from authorities?

- Ans
- ☒ 1. Medium cost, medium return
  - ☒ 2. Low cost, high return
  - ☒ 3. High cost, medium return
  - ☒ 4. High cost, high return

Question ID : 630680212543

Option 1 ID : 630680824318

Option 2 ID : 630680824317

Option 3 ID : 630680824315

Option 4 ID : 630680824316

Status : Answered

Q.7 The terminals of TRIAC are named as MT1, MT2 and G. What does 'MT' stand for?

- Ans
- ☒ 1. Main terminal
  - ☐ 2. Mini track
  - ☐ 3. Mini terminal
  - ☐ 4. Main track

Question ID : 630680212528

Option 1 ID : 630680824258

Option 2 ID : 630680824255

Option 3 ID : 630680824257

Option 4 ID : 630680824256

Status : Answered

Chosen Option : 1

Q.8 Which of the following methods of turning on of a thyristor may lead to the destruction of the thyristor?

- Ans
- ☐ 1. Light triggering
  - ☐ 2. Forward voltage triggering
  - ☒ 3.  $\frac{dv}{dt}$  triggering
  - ☐ 4. Gate triggering

Question ID : 630680212527

Option 1 ID : 630680824254

Option 2 ID : 630680824251

Option 3 ID : 630680824253

Option 4 ID : 630680824252

Status : Answered

Chosen Option : 3

Q.9 If the total cost of electrical energy generated = fixed cost(A) + semi-fixed cost(B) + running cost(C), then 'B' is proportional to the \_\_\_\_\_.

- Ans
- ☐ 1. connected load
  - ☒ 2. maximum demand
  - ☐ 3. energy generated
  - ☐ 4. average load

Question ID : 630680212513

Option 1 ID : 630680824198

Option 2 ID : 630680824195

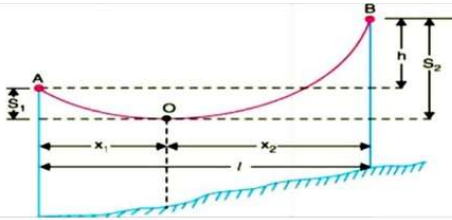
Option 3 ID : 630680824197

Option 4 ID : 630680824196

Status : Answered

Chosen Option : 2

Q.10



The figure represents the case of transmission line supports at unequal levels.  $S_2 - S_1$  is directly proportional to:

Ans

- ☒ 1.  $\frac{x_2}{x_1}$
- ☒ 2.  $(x_2 - x_1)$
- ☒ 3.  $\frac{x_1}{x_2}$
- ☒ 4.  $x_1 x_2$

Question ID : 630680212518

Option 1 ID : 630680824215

Option 2 ID : 630680824216

Option 3 ID : 630680824217

Option 4 ID : 630680824218

Status : Answered

Chosen Option : 2

Q.11 Which of the following is true for extending the range of the DC voltmeter?

Ans

- ☒ 1. A large resistance is connected in series with a meter.
- ☒ 2. A small resistance is connected in parallel with a meter.
- ☒ 3. A small resistance is connected in series with a meter.
- ☒ 4. A large resistance is connected in parallel with a meter.

Question ID : 630680212493

Option 1 ID : 630680824117

Option 2 ID : 630680824115

Option 3 ID : 630680824118

Option 4 ID : 630680824116

Status : Answered

Chosen Option : 1

**Q.12** In Wein's bridge (which is used to measure unknown capacitance), the total number of arms of the bridge having a single resistor only is:

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

Question ID : 630680212490

Option 1 ID : 630680824106

Option 2 ID : 630680824103

Option 3 ID : 630680824105

Option 4 ID : 630680824104

Status : Answered

Chosen Option : 1

**Q.13** Attraction type moving iron instruments are also called:

- Ans
- ☒ 1. triple iron type
  - ☒ 2. quadruple iron type
  - ☒ 3. double iron type
  - ☒ 4. single iron type

Question ID : 630680212492

Option 1 ID : 630680824113

Option 2 ID : 630680824114

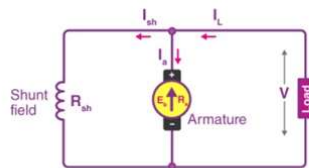
Option 3 ID : 630680824112

Option 4 ID : 630680824111

Status : Answered

Chosen Option : 3

**Q.14**



Which of the following is the expression for the mechanical power developed by the motor in terms of supply voltage?

- Ans
- ☒ 1.  $V I_a - I_a^2 R_{sh}$
  - ☒ 2.  $V I_a - I_a^2 R_a$
  - ☒ 3.  $V I_L - I_a^2 R_a$
  - ☒ 4.  $V I_L - I_L^2 R_a$

Question ID : 630680212498

Option 1 ID : 630680824137

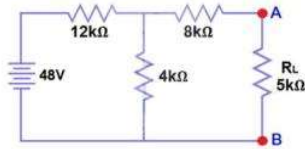
Option 2 ID : 630680824136

Option 3 ID : 630680824138

Option 4 ID : 630680824135

Status : Answered

Q.15



Considering load resistance  $R_L = 5\text{ k}\Omega$ , calculate Thevenin's resistance of the circuit shown above.

- Ans
- ☒ 1.  $9\text{ }\Omega$
  - ☒ 2.  $11\text{ }\Omega$
  - ☒ 3.  $12\text{ }\Omega$
  - ☒ 4.  $10\text{ }\Omega$

Question ID : 630680212483

Option 1 ID : 630680824075

Option 2 ID : 630680824077

Option 3 ID : 630680824078

Option 4 ID : 630680824076

Status : Answered

Chosen Option : 2

Q.16 In the LT line distribution, if  $\frac{\text{Length of the line}}{\text{Span between two poles}} = 20$ , then the number of poles required is:

- Ans
- ☒ 1. 20
  - ☒ 2. 21
  - ☒ 3. 40
  - ☒ 4. 19

Question ID : 630680212534

Option 1 ID : 630680824279

Option 2 ID : 630680824280

Option 3 ID : 630680824282

Option 4 ID : 630680824281

Status : Answered

Chosen Option : 2

Q.17 Which of the following is an application of a multi-motor drive?

- Ans
- ☒ 1. Crane
  - ☒ 2. Paper mill
  - ☒ 3. Textile mill
  - ☒ 4. Food grinding mill

Question ID : 630680212540

Option 1 ID : 630680824306

Option 2 ID : 630680824303

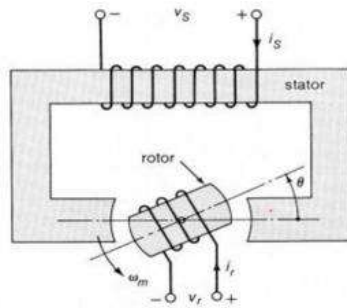
Option 3 ID : 630680824305

Option 4 ID : 630680824304

Status : Answered

Chosen Option : 1

Q.18



The number of excitations involved in the magnetic field system shown in the figure is:

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

Question ID : 630680212494

Option 1 ID : 630680824121

Option 2 ID : 630680824119

Option 3 ID : 630680824120

Option 4 ID : 630680824122

Status : Answered

Chosen Option : 3

Q.19 In the two-wattmeter method of three phase power measurement, if the readings of two wattmeters are  $W_1 = 200$  Watts and  $W_2 = -200$  Watts, then the operating power factor of the load is equal to:

- Ans
- ☒ 1. zero
  - ☒ 2. 0.8
  - ☒ 3. 0.5
  - ☒ 4. 1

Question ID : 630680212489

Option 1 ID : 630680824102

Option 2 ID : 630680824100

Option 3 ID : 630680824101

Option 4 ID : 630680824099

Status : Answered

Chosen Option : 1

**Q.20** Which of the following is true, considering the rotor of a three-phase induction motor in the blocked state?

- Ans
- ☒ 1. Supply frequency > Rotor frequency
  - ☒ 2. Supply frequency = Rotor frequency
  - ☒ 3. Supply frequency < Rotor frequency
  - ☒ 4. Rotor frequency = 0 (Always)

Question ID : 630680212501

Option 1 ID : 630680824147

Option 2 ID : 630680824149

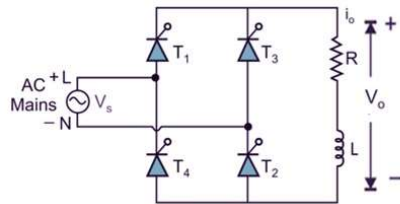
Option 3 ID : 630680824148

Option 4 ID : 630680824150

Status : Answered

Chosen Option : 2

**Q.21** For the rectifier circuit shown in the figure, the expression for the average value of output voltage = \_\_\_\_\_, provided ' $\alpha$ ' is the firing angle.



- Ans
- ☒ 1.  $V_o = \frac{v_m}{4\pi} \cos \alpha$
  - ☒ 2.  $V_o = \frac{2v_m}{\pi} \cos \alpha$
  - ☒ 3.  $V_o = \frac{2v_m}{3\pi} \cos \alpha$
  - ☒ 4.  $V_o = \frac{v_m}{2\pi} \cos \alpha$

Question ID : 630680212532

Option 1 ID : 630680824274

Option 2 ID : 630680824273

Option 3 ID : 630680824271

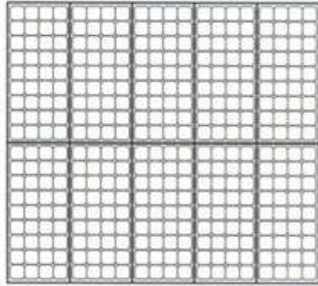
Option 4 ID : 630680824272

Status : Answered

Chosen Option : 2



Q.22 Considering a solar power plant, the figure represents which of the following?



- Ans
- ☒ 1. Solar cell
  - ☒ 2. Battery bank
  - ☒ 3. Solar module
  - ☒ 4. Solar array

Question ID : 630680212507

Option 1 ID : 630680824171

Option 2 ID : 630680824174

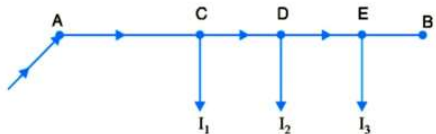
Option 3 ID : 630680824172

Option 4 ID : 630680824173

Status : Answered

Chosen Option : 3

Q.23



The figure represents a distributor fed at point A. Which section of the distributor carries the most current?

- Ans
- ☒ 1. EB
  - ☒ 2. CD
  - ☒ 3. DE
  - ☒ 4. AC

Question ID : 630680212519

Option 1 ID : 630680824222

Option 2 ID : 630680824220

Option 3 ID : 630680824221

Option 4 ID : 630680824219

Status : Answered

Chosen Option : 4

**Q.24** Which of the following classes of commutation comes under the category of self-commutation?

- Ans**
- ☒ 1. Class A and Class B
  - ☐ 2. Class B and Class D
  - ☐ 3. Class B and Class C
  - ☐ 4. Class A and Class C

Question ID : 630680212531

Option 1 ID : 630680824268

Option 2 ID : 630680824270

Option 3 ID : 630680824269

Option 4 ID : 630680824267

Status : Answered

Chosen Option : 3

**Q.25** Protective relays in AC power systems are connected in the secondary circuit of which of the following transformers?

- Ans**
- ☐ 1. Power transformers
  - ☐ 2. Isolation transformers
  - ☒ 3. Instrument transformers
  - ☐ 4. Distribution transformers

Question ID : 630680212522

Option 1 ID : 630680824231

Option 2 ID : 630680824234

Option 3 ID : 630680824232

Option 4 ID : 630680824233

Status : Answered

Chosen Option : 3

**Q.26** Which of the following comes under the category of 'power factor tariff'?

- Ans**
- ☐ 1. Three-part tariff
  - ☐ 2. Flat rate tariff
  - ☐ 3. Block rate tariff
  - ☒ 4. Sliding scale tariff

Question ID : 630680212546

Option 1 ID : 630680824328

Option 2 ID : 630680824327

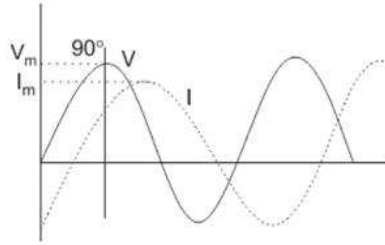
Option 3 ID : 630680824329

Option 4 ID : 630680824330

Status : Answered

Chosen Option : 4

Q.27



For the voltage and current wave forms shown in the figure, which of the following is true?

Ans

☒ 1.

Form factor of voltage wave form = Peak factor of current wave form

☒ 2.

Peak factor of voltage wave form = Form factor of current wave form

☒ 3.

Form factor of current wave form = Peak factor of current wave form

☒ 4.

Form factor of voltage wave form = Form factor of current wave form

Question ID : 630680212486

Option 1 ID : 630680824088

Option 2 ID : 630680824089

Option 3 ID : 630680824090

Option 4 ID : 630680824087

Status : Answered

Chosen Option : 2

Q.28 For analysing long transmission lines, identify from the list those that are considered shunt elements.

1. Line resistance
2. Line inductive reactance
3. Line leakage susceptance
4. Line leakage conductance

Ans

☒ 1. 2 and 3

☒ 2. 3 and 4

☒ 3. 1 and 2

☒ 4. 4 and 1

Question ID : 630680212517

Option 1 ID : 630680824212

Option 2 ID : 630680824213

Option 3 ID : 630680824211

Option 4 ID : 630680824214

Status : Answered

Chosen Option : 2

Q.29 Which of the following statements is related to IGBT?

Ans ☒ 1.

It has high input impedance like SCR and low state power loss as in BJT.

☒ 2.

It has high input impedance like MOSFET and low state power loss as in TRIAC.

☒ 3.

It has high input impedance like MOSFET and low state power loss as in SCR.

☒ 4.

It has high input impedance like MOSFET and low state power loss as in BJT.

Question ID : 630680212529

Option 1 ID : 630680824261

Option 2 ID : 630680824259

Option 3 ID : 630680824260

Option 4 ID : 630680824262

Status : Answered

Chosen Option : 4

Q.30 With which of the following techniques is energy conservation in a lighting system NOT achievable?

Ans ☒ 1. Optimum use of natural light

☒ 2. Replacing filament lamps on panels with LEDs

☒ 3. Replacing electronic ballast with conventional ballast

☒ 4. Replacing incandescent lamps with CFLS

Question ID : 630680212544

Option 1 ID : 630680824321

Option 2 ID : 630680824320

Option 3 ID : 630680824322

Option 4 ID : 630680824319

Status : Answered

Chosen Option : 3

Q.31 Based on how the unknown resistance is connected to an ohmmeter, ohmmeters are classified into \_\_\_\_\_ types.

Ans ☒ 1. 1

☒ 2. 2

☒ 3. 3

☒ 4. 4

Question ID : 630680212491

Option 1 ID : 630680824107

Option 2 ID : 630680824108

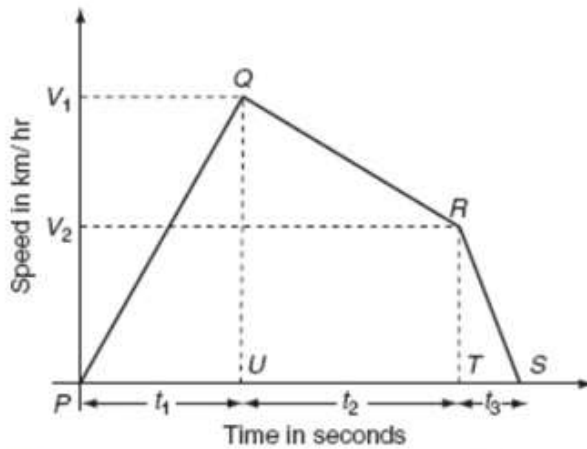
Option 3 ID : 630680824109

Option 4 ID : 630680824110

Status : Answered

Chosen Option : 3

Q.32



The shape of the speed-time characteristic shown above is:

- Ans
- ☒ 1. heptagram
  - ☒ 2. triquetra
  - ☒ 3. trapezoidal
  - ☒ 4. quadrilateral

Question ID : 630680212541

Option 1 ID : 630680824309

Option 2 ID : 630680824310

Option 3 ID : 630680824307

Option 4 ID : 630680824308

Status : Answered

Chosen Option : 3

Q.33 36,00,000 Watt-Sec = ?

- Ans
- ☒ 1. 1 MWh
  - ☒ 2. 10 MWh
  - ☒ 3. 1 kWh
  - ☒ 4. 10 kWh

Question ID : 630680212476

Option 1 ID : 630680824049

Option 2 ID : 630680824050

Option 3 ID : 630680824047

Option 4 ID : 630680824048

Status : Answered

Chosen Option : 3

Q.34 For which of the following applications is the three-phase induction NOT suitable?

- Ans
- ☒ 1. To drive a conveyor belt
  - ☒ 2. To drive a compressor
  - ☒ 3. To drive a turbine
  - ☒ 4. To drive a pump

Question ID : 630680212500

Option 1 ID : 630680824146

Option 2 ID : 630680824144

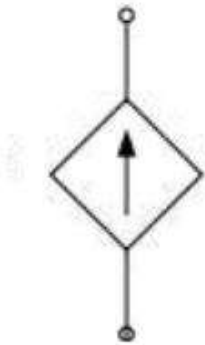
Option 3 ID : 630680824143

Option 4 ID : 630680824145

Status : Answered

Chosen Option : 2

Q.35



The symbol represents which of the following?

- Ans
- ☒ 1. Dependent voltage source
  - ☒ 2. Independent voltage source
  - ☒ 3. Independent current source
  - ☒ 4. Dependent current source

Question ID : 630680212477

Option 1 ID : 630680824054

Option 2 ID : 630680824052

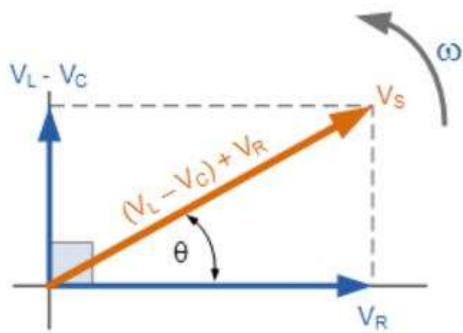
Option 3 ID : 630680824051

Option 4 ID : 630680824053

Status : Answered

Chosen Option : 4

Q.36



The phasor diagram shown in the figure represents which of the following circuits?

- Ans
- ☒ 1. R-L-C series circuit when  $X_C = 0$
  - ☒ 2. R-L-C series circuit when  $X_L > X_C$
  - ☒ 3. R-L-C series circuit when  $X_L = 0$
  - ☒ 4. R-L-C series circuit when  $X_L < X_C$

Question ID : 630680212487

Option 1 ID : 630680824094

Option 2 ID : 630680824092

Option 3 ID : 630680824093

Option 4 ID : 630680824091

Status : Answered

Chosen Option : 2

Q.37 Which of the following single-phase motors has two windings in the stator?

- Ans
- ☒ 1. Universal motor
  - ☒ 2. Capacitor start single-phase induction motor
  - ☒ 3. Shaded-pole induction motor
  - ☒ 4. Reluctance motor

Question ID : 630680212504

Option 1 ID : 630680824161

Option 2 ID : 630680824159

Option 3 ID : 630680824160

Option 4 ID : 630680824162

Status : Answered

Chosen Option : 2



Q.38 Pick the odd one out, considering arc quenching methods of a circuit breaker.

- Ans
- ☒ 1. Cooling the arc method
  - ☒ 2. Lengthening the arc method
  - ☒ 3. Current zero method
  - ☒ 4. Splitting the arc method

Question ID : 630680212523

Option 1 ID : 630680824237

Option 2 ID : 630680824235

Option 3 ID : 630680824236

Option 4 ID : 630680824238

Status : Answered

Chosen Option : 3

Q.39 For a single-phase two-wire line,  $\frac{\text{Inductance of conductor}}{\text{Loop inductance}} = \underline{\hspace{2cm}}$ .

- Ans
- ☒ 1. 0
  - ☒ 2. 1
  - ☒ 3. 0.5
  - ☒ 4. 1.5

Question ID : 630680212516

Option 1 ID : 630680824207

Option 2 ID : 630680824209

Option 3 ID : 630680824208

Option 4 ID : 630680824210

Status : Answered

Chosen Option : 3

Q.40 The ratio  $\frac{\text{Reset value}}{\text{Pick up value}}$  for induction-type relay is:

- Ans
- ☒ 1. 0.7 to 0.8
  - ☒ 2. 0.2 to 0.4
  - ☒ 3. 1
  - ☒ 4. 0.9 to 0.95

Question ID : 630680212521

Option 1 ID : 630680824228

Option 2 ID : 630680824230

Option 3 ID : 630680824229

Option 4 ID : 630680824227

Status : Answered

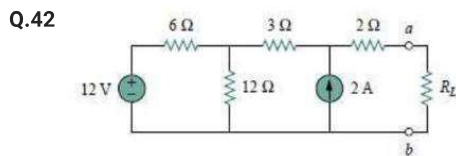
Chosen Option : 2



Q.41  $\frac{\text{Number of terminals in a diode}}{\text{Number of terminals in a power diode}} = \underline{\hspace{2cm}}$

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

Question ID : 630680212533  
Option 1 ID : 630680824278  
Option 2 ID : 630680824275  
Option 3 ID : 630680824277  
Option 4 ID : 630680824276  
Status : Answered  
Chosen Option : 2



Find the load resistance of the circuit shown in the figure such that the maximum power is transferred to the load resistance?

- Ans
- ☒ 1. 9 Ω
  - ☒ 2. 15 Ω
  - ☒ 3. 12 Ω
  - ☒ 4. 6 Ω

Question ID : 630680212485  
Option 1 ID : 630680824084  
Option 2 ID : 630680824086  
Option 3 ID : 630680824085  
Option 4 ID : 630680824083  
Status : Answered  
Chosen Option : 1

Q.43 If copper losses of a single-phase transformer at 50% of rated current are 1500 W, then copper losses at full load is equal to:

- Ans
- ☒ 1. 15,000 W
  - ☒ 2. 3000 W
  - ☒ 3. 4500 W
  - ☒ 4. 6000 W

Question ID : 630680212506  
Option 1 ID : 630680824169  
Option 2 ID : 630680824167  
Option 3 ID : 630680824170  
Option 4 ID : 630680824168  
Status : Answered  
Chosen Option : 4

Q.44 Most of the faults in the power system are mainly due to:

- Ans
- ✓ 1. overhead lines
  - ✗ 2. generators
  - ✗ 3. transformers
  - ✗ 4. underground cables

Question ID : 630680212525

Option 1 ID : 630680824245

Option 2 ID : 630680824244

Option 3 ID : 630680824246

Option 4 ID : 630680824243

Status : Answered

Chosen Option : 1

Q.45 Which of the following is defined as 'the percentage change in energy consumption to achieve 1% change in the national GDP in a specific country over time'?

- Ans
- ✗ 1. Energy efficiency
  - ✗ 2. Energy intensity
  - ✗ 3. Energy audit
  - ✓ 4. Energy elasticity

Question ID : 630680212547

Option 1 ID : 630680824333

Option 2 ID : 630680824332

Option 3 ID : 630680824334

Option 4 ID : 630680824331

Status : Answered

Chosen Option : 4

Q.46 Which of following relations is true, considering illumination?

- Ans
- ✓ 1. Depreciation factor =  $\frac{1}{\text{Maintenance factor}}$
  - ✗ 2. Depreciation factor =  $1 + \text{maintenance factor}$
  - ✗ 3. Depreciation factor = maintenance factor
  - ✗ 4. Depreciation factor =  $1 - \text{maintenance factor}$

Question ID : 630680212539

Option 1 ID : 630680824302

Option 2 ID : 630680824300

Option 3 ID : 630680824299

Option 4 ID : 630680824301

Status : Answered

Chosen Option : 1

Q.47 Which of the following layers of the underground cable consist of a fibrous material?

- Ans
- ☒ 1. Bedding and armouring
  - ☒ 2. Armouring and serving
  - ☒ 3. Bedding and serving
  - ☒ 4. Bedding, serving and armouring

Question ID : 630680212515

Option 1 ID : 630680824204

Option 2 ID : 630680824205

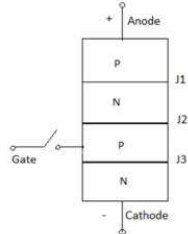
Option 3 ID : 630680824203

Option 4 ID : 630680824206

Status : Answered

Chosen Option : 3

Q.48



For the SCR shown, if a forward voltage is applied to the anode and cathode, with the gate open, then which of the following is true?

- Ans
- ☒ 1.  $J_1$  and  $J_3$  are reverse biased.
  - ☒ 2.  $J_1$  and  $J_3$  are forward biased.
  - ☒ 3.  $J_1$  and  $J_2$  are reverse biased.
  - ☒ 4.  $J_1$  and  $J_2$  are forward biased.

Question ID : 630680212526

Option 1 ID : 630680824248

Option 2 ID : 630680824247

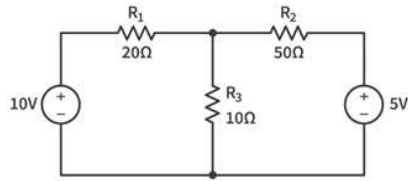
Option 3 ID : 630680824250

Option 4 ID : 630680824249

Status : Answered

Chosen Option : 1

Q.49



In the circuit shown above, if 5V source is open circuited, then which of the following is TRUE?

- Ans
- ☒ 1.  $R_1$  is connected in series with  $R_2$
  - ☒ 2.  $R_1$  is connected in parallel with  $R_2$
  - ☒ 3.  $R_1$  is connected in series with  $R_3$
  - ☒ 4.  $R_1$  is connected in parallel with  $R_3$

Question ID : 630680212473

Option 1 ID : 630680824035

Option 2 ID : 630680824037

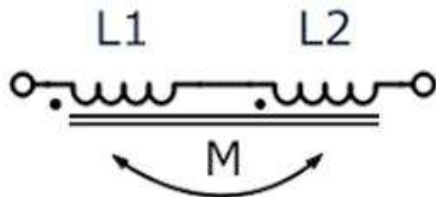
Option 3 ID : 630680824036

Option 4 ID : 630680824038

Status : Answered

Chosen Option : 3

Q.50



The net inductance of the magnetic circuit shown in figure is equal to:

- Ans
- ☒ 1.  $L_1 + L_2 - 2M$
  - ☒ 2.  $L_1 + L_2 - M$
  - ☒ 3.  $L_1 + L_2 + 2M$
  - ☒ 4.  $L_1 + L_2 + M$

Question ID : 630680212478

Option 1 ID : 630680824056

Option 2 ID : 630680824058

Option 3 ID : 630680824055

Option 4 ID : 630680824057

Status : Answered

Chosen Option : 3

Q.51 In energy conservation, 'NMEEE' stands for:

- Ans
- ☒ 1. National Mission for Economical Energy Efficiency
  - ☒ 2. National Mission for Enriched Energy Efficiency
  - ☒ 3. National Mission for Enhanced Energy Efficiency
  - ☒ 4. National Moto for Enhanced Energy Efficiency

Question ID : 630680212545

Option 1 ID : 630680824326

Option 2 ID : 630680824325

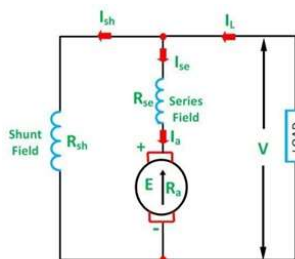
Option 3 ID : 630680824324

Option 4 ID : 630680824323

Status : Answered

Chosen Option : 3

Q.52



For the long shunt compound motor (which is running) shown in the figure, what happens if shunt field winding gets open circuited accidentally?

- Ans
- ☒ 1. Motor continues to operate like a series motor.
  - ☒ 2. Motor continues to operate like a shunt motor.
  - ☒ 3. Motor stops running.
  - ☒ 4. Motor continues to operate like a compound motor.

Question ID : 630680212499

Option 1 ID : 630680824139

Option 2 ID : 630680824140

Option 3 ID : 630680824142

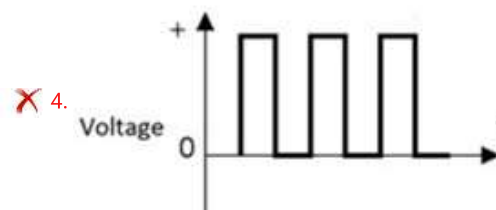
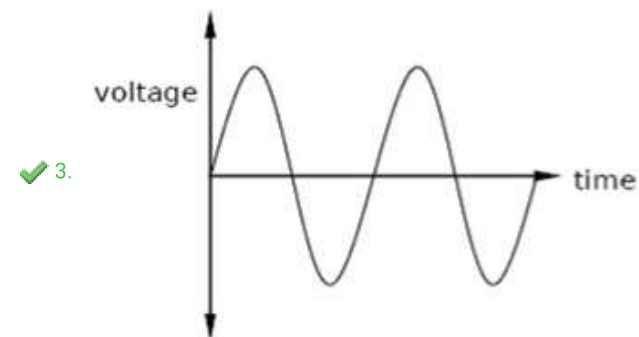
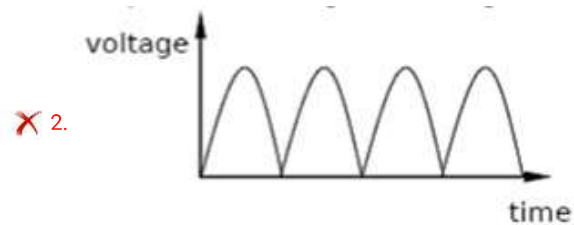
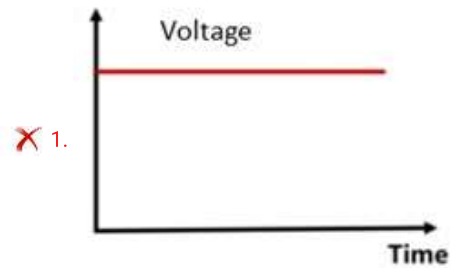
Option 4 ID : 630680824141

Status : Answered

Chosen Option : 3

**Q.53** Which of the following represents the output waveform (voltage) of the DC generator without the commutator?

Ans



Question ID : 630680212495

Option 1 ID : 630680824125

Option 2 ID : 630680824124

Option 3 ID : 630680824123

Option 4 ID : 630680824126

Status : Answered

Chosen Option : 3

**Q.54** If a house must be installed with 8 power socket outlets, then the total number of power sub-circuits required is:

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

Question ID : 630680212538

Option 1 ID : 630680824297

Option 2 ID : 630680824298

Option 3 ID : 630680824296

Option 4 ID : 630680824295

Status : Answered

Chosen Option : 3

**Q.55** Which of the following CANNOT be connected in a lighting sub-circuit?

- Ans
- ☒ 1. Fans
  - ☒ 2. Lights
  - ☒ 3. Geyser
  - ☒ 4. 5A socket

Question ID : 630680212537

Option 1 ID : 630680824291

Option 2 ID : 630680824293

Option 3 ID : 630680824294

Option 4 ID : 630680824292

Status : Answered

Chosen Option : 3

**Q.56** In illumination,  $\frac{\text{Mean spherical candle power of a source}}{\text{Mean hemi-spherical candle power of the same source}} = ?$

- Ans
- ☒ 1. Reduction factor
  - ☒ 2. Maintenance factor
  - ☒ 3. Absorption factor
  - ☒ 4. Utilisation factor

Question ID : 630680212542

Option 1 ID : 630680824311

Option 2 ID : 630680824313

Option 3 ID : 630680824314

Option 4 ID : 630680824312

Status : Answered

Chosen Option : 1

Q.57 Which of the following machines (devices) makes use of liquid as well as solid insulating materials?

- Ans
- ☒ 1. Synchronous generator
  - ☒ 2. Transformer
  - ☒ 3. DC generator
  - ☒ 4. Induction motor

Question ID : 630680212503

Option 1 ID : 630680824156

Option 2 ID : 630680824155

Option 3 ID : 630680824158

Option 4 ID : 630680824157

Status : Answered

Chosen Option : 2

Q.58 If the speed of a DC machine is 1500 RPM, then the time taken to complete one cycle (rotation) is equal to:

- Ans
- ☒ 1.  $\frac{6000}{150}$  sec
  - ☒ 2.  $\frac{600}{150}$  sec
  - ☒ 3.  $\frac{60}{150}$  sec
  - ☒ 4.  $\frac{60}{1500}$  sec

Question ID : 630680212496

Option 1 ID : 630680824130

Option 2 ID : 630680824128

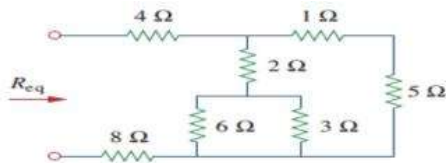
Option 3 ID : 630680824127

Option 4 ID : 630680824129

Status : Answered

Chosen Option : 4

Q.59



For the network shown above, using the network reduction technique,  $R_{eq} = \underline{\hspace{2cm}}$ .

- Ans
- ☒ 1. 14.4  $\Omega$
  - ☒ 2. 12.4  $\Omega$
  - ☒ 3. 16.4  $\Omega$
  - ☒ 4. 10.4  $\Omega$

Question ID : 630680212482

Option 1 ID : 630680824073

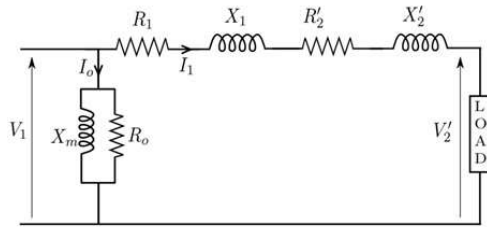
Option 2 ID : 630680824072

Option 3 ID : 630680824074

Option 4 ID : 630680824071



Q.60



If the circuit represents a simplified equivalent circuit of a transformer, then with usual notations,  $X_2' =$  \_\_\_\_\_.

Ans

- ☒ 1.  $X_2 \left( \frac{N_2}{N_1} \right)^2$
- ☒ 2.  $X_2 \left( \frac{N_1}{N_2} \right)$
- ☒ 3.  $X_2 \left( \frac{N_1}{N_2} \right)^2$
- ☒ 4.  $X_2 \left( \frac{N_2}{N_1} \right)$

Question ID : 630680212505

Option 1 ID : 630680824164

Option 2 ID : 630680824165

Option 3 ID : 630680824166

Option 4 ID : 630680824163

Status : Answered

Chosen Option : 1

Q.61 In a thermal power plant, feed water from feed water pump enters the boiler through the \_\_\_\_\_.

Ans

- ☒ 1. economiser
- ☒ 2. air preheater
- ☒ 3. chimney
- ☒ 4. super heater

Question ID : 630680212508

Option 1 ID : 630680824178

Option 2 ID : 630680824177

Option 3 ID : 630680824175

Option 4 ID : 630680824176

Status : Answered

Chosen Option : 1

**Q.62** If ' $\alpha$ ' is the firing angle and ' $\beta$ ' is the extinction angle of a given SCR, then which of the following relations between them is true?

- Ans
- ☒ 1. Conduction angle =  $\beta - 2\alpha$
  - ☒ 2. Conduction angle =  $\beta - \alpha$
  - ☒ 3. Conduction angle =  $2\beta - \alpha$
  - ☒ 4. Conduction angle =  $\beta + \alpha$

Question ID : 630680212530

Option 1 ID : 630680824266

Option 2 ID : 630680824263

Option 3 ID : 630680824265

Option 4 ID : 630680824264

Status : Answered

Chosen Option : 2

**Q.63** For which of the following machines (devices) is Faraday's laws of electromagnetic induction NOT applicable?

- Ans
- ☒ 1. DC generator
  - ☒ 2. Transformer
  - ☒ 3. AC generator
  - ☒ 4. Geyser

Question ID : 630680212480

Option 1 ID : 630680824063

Option 2 ID : 630680824065

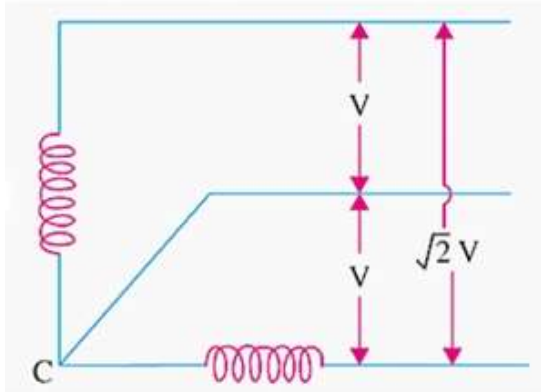
Option 3 ID : 630680824064

Option 4 ID : 630680824066

Status : Answered

Chosen Option : 4

Q.64 Identify the system of transmission shown in the figure.



- Ans
- ☒ 1. 3-phase, 4-wire system
  - ☒ 2. 3-phase, 3-wire system
  - ☒ 3. 2-phase, 3-wire system
  - ☒ 4. 2-phase, 4-wire system

Question ID : 630680212514

Option 1 ID : 630680824202

Option 2 ID : 630680824201

Option 3 ID : 630680824199

Option 4 ID : 630680824200

Status : Answered

Chosen Option : 3

Q.65 While calculating the rating capacity of a circuit breaker,  $\frac{\text{Making capacity}}{\text{Breaking capacity}} = \underline{\hspace{2cm}}$ .

- Ans
- ☒ 1. 1.55
  - ☒ 2. 3.55
  - ☒ 3. 4.55
  - ☒ 4. 2.55

Question ID : 630680212520

Option 1 ID : 630680824223

Option 2 ID : 630680824225

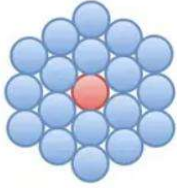
Option 3 ID : 630680824226

Option 4 ID : 630680824224

Status : Answered

Chosen Option : 4

Q.66



The total number of strands and total number of layers, respectively, in a stranded conductor shown in the figure are equal to:

- Ans
- ☐ 1. 20 and 2
  - ☐ 2. 20 and 3
  - ☐ 3. 19 and 4
  - ☒ 4. 19 and 3

Question ID : 630680212536

Option 1 ID : 630680824290

Option 2 ID : 630680824288

Option 3 ID : 630680824289

Option 4 ID : 630680824287

Status : Answered

Chosen Option : 4

Q.67 Which of the following power plants uses a gear box mechanism and an induction generator?

- Ans
- ☐ 1. Hydroelectric power plant
  - ☐ 2. Solar power plant
  - ☒ 3. Wind power plant
  - ☐ 4. Thermal power plant

Question ID : 630680212509

Option 1 ID : 630680824181

Option 2 ID : 630680824180

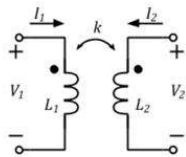
Option 3 ID : 630680824182

Option 4 ID : 630680824179

Status : Answered

Chosen Option : 3

Q.68



For the coupled coils shown in the figure, the value of mutual inductance is maximum, provided the coefficient of coupling ( $k$ ) is:

- Ans
- ☒ 1. 1.2
  - ☒ 2. 1
  - ☒ 3. 0.4
  - ☒ 4. 0.8

Question ID : 630680212479

Option 1 ID : 630680824059

Option 2 ID : 630680824062

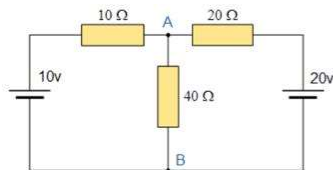
Option 3 ID : 630680824060

Option 4 ID : 630680824061

Status : Answered

Chosen Option : 2

Q.69



Considering  $40\ \Omega$  as load resistance (which is connected between A and B), Norton's resistance of the circuit is equal to  $6.67\ \Omega$ . Calculate Norton's resistance of the same circuit if  $40\ \Omega$  is replaced with  $80\ \Omega$ .

- Ans
- ☒ 1.  $7.67\ \Omega$
  - ☒ 2.  $13.67\ \Omega$
  - ☒ 3.  $6.67\ \Omega$
  - ☒ 4.  $4.67\ \Omega$

Question ID : 630680212484

Option 1 ID : 630680824079

Option 2 ID : 630680824082

Option 3 ID : 630680824081

Option 4 ID : 630680824080

Status : Answered

Chosen Option : 3

Q.70 For which of the following motors are brushes NOT employed?

- Ans
- ☐ 1. Three-phase slip ring induction motor
  - ☒ 2. Three-phase squirrel cage induction motor
  - ☐ 3. DC series motor
  - ☐ 4. Three-phase synchronous motor

Question ID : 630680212502

Option 1 ID : 630680824153

Option 2 ID : 630680824154

Option 3 ID : 630680824151

Option 4 ID : 630680824152

Status : Answered

Chosen Option : 2

Q.71 Which of the following power plants are 'steam based'?

- Ans
- ☐ 1. Solar and nuclear power plants
  - ☒ 2. Nuclear and thermal power plants
  - ☐ 3. Hydro and nuclear power plants
  - ☐ 4. Wind and thermal power plants

Question ID : 630680212510

Option 1 ID : 630680824184

Option 2 ID : 630680824185

Option 3 ID : 630680824183

Option 4 ID : 630680824186

Status : Answered

Chosen Option : 2

Q.72 'Selectivity' is the ability of which of the following protective devices?

- Ans
- ☐ 1. Lightning arrester
  - ☐ 2. Circuit breaker
  - ☐ 3. Fuse
  - ☒ 4. Relay

Question ID : 630680212524

Option 1 ID : 630680824241

Option 2 ID : 630680824240

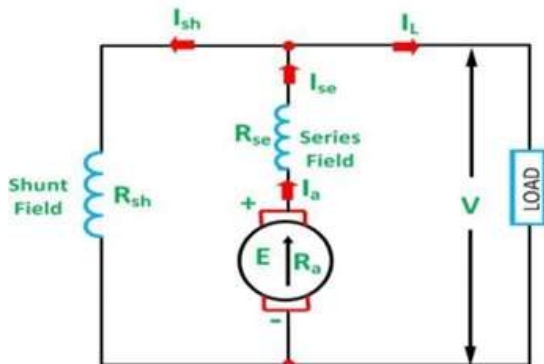
Option 3 ID : 630680824242

Option 4 ID : 630680824239

Status : Answered

Chosen Option : 4

Q.73



For the long shunt compound generator shown in the figure, the ratio  $\frac{I_{sh}}{I_a}$  is:

Ans

- ✓ 1. always less than 1
- ✗ 2. always equal to 1
- ✗ 3. always greater than 1
- ✗ 4. always equal to 0

Question ID : 630680212497

Option 1 ID : 630680824131

Option 2 ID : 630680824133

Option 3 ID : 630680824132

Option 4 ID : 630680824134

Status : Answered

Chosen Option : 1

Q.74 Electrostatic precipitator is an important device in which of the following power plants?

Ans

- ✓ 1. Thermal power plant
- ✗ 2. Wind power plant
- ✗ 3. Hydroelectric power plant
- ✗ 4. Solar power plant

Question ID : 630680212512

Option 1 ID : 630680824191

Option 2 ID : 630680824194

Option 3 ID : 630680824193

Option 4 ID : 630680824192

Status : Answered

Chosen Option : 1

Q.75 Which cable or conductor is usually the shortest in length among the following?

Ans

✓ 1. Service mains

✗ 2. Transmission line

✗ 3. Feeder

✗ 4. Distributor

Question ID : 630680212535

Option 1 ID : 630680824283

Option 2 ID : 630680824286

Option 3 ID : 630680824285

Option 4 ID : 630680824284

Status : Answered

Chosen Option : 1