

NHPC/ THDC JE

Previous Year Paper

(Electrical)

23 July, 2023

Adda247

Test Prime

ALL EXAMS, ONE SUBSCRIPTION



80,000+
Mock Tests



**Personalised
Report Card**



**Unlimited
Re-Attempt**



600+
Exam Covered



20,000+ Previous
Year Papers



500%
Refund



ATTEMPT FREE MOCK NOW



Participant ID	
Participant Name	
Test Center Name	
Test Date	23/07/2023
Test Time	2:00 PM - 5:00 PM
Subject	JUNIOR ENGINEER (ELECTRICAL)

Section : General Awareness

Q.1 Which among the following is not an example of Tropical Rain Forest?

- Ans
- ☒ 1. Rosewood
 - ☒ 2. Ebony
 - ☒ 3. Sal
 - ☒ 4. Mahagony

Question ID : 630680278395
Option 1 ID : 6306801081939
Option 2 ID : 6306801081937
Option 3 ID : 6306801081940
Option 4 ID : 6306801081938
Status : Answered
Chosen Option : 1

Q.2 _____ was started by Mirza Gulam Ahmed in 1889 in order to spread western education among Indian Muslims.

- Ans
- ☒ 1. Wahabi Movement
 - ☒ 2. All India Muslim Movement
 - ☒ 3. Ahmadiya Movement
 - ☒ 4. Faraizi Movement

Question ID : 630680278402
Option 1 ID : 6306801081966
Option 2 ID : 6306801081968
Option 3 ID : 6306801081965
Option 4 ID : 6306801081967
Status : Not Answered
Chosen Option : --

Q.3 According to the Censius 2011, what is the population density of India?

- Ans
1. 361

2. 382

3. 325

4. 353

Question ID : 630680278397

Option 1 ID : 6306801081945

Option 2 ID : 6306801081947

Option 3 ID : 6306801081948

Option 4 ID : 6306801081946

Status : Not Answered

Chosen Option : --

Q.4 Who appoints the Chief Justice of India?

- Ans
1. Governors of states

2. Supreme Court collegium

3. President

4. Prime Minister

Question ID : 630680278407

Option 1 ID : 6306801081987

Option 2 ID : 6306801081988

Option 3 ID : 6306801081985

Option 4 ID : 6306801081986

Status : Answered

Chosen Option : 3

Q.5 _____ is the central recruiting agency that has detailed provisions with regard to composition appointment and removal of the member.

- Ans
1. Union Public Service Commission of India

2. Comptroller and Auditor General of India

3. Finance Commission

4. Election Commission of India

Question ID : 630680278405

Option 1 ID : 6306801081978

Option 2 ID : 6306801081979

Option 3 ID : 6306801081980

Option 4 ID : 6306801081977

Status : Answered

Chosen Option : 1

Q.6 Which among the following river is also popularly known as Puranik river?

- Ans
1. Brahmaputra

2. Narmada

3. Tapi

4. Indus

Question ID : 630680278394

Option 1 ID : 6306801081936

Option 2 ID : 6306801081933

Option 3 ID : 6306801081934

Option 4 ID : 6306801081935

Status : Not Answered

Chosen Option : --

Q.7 Which among the following is an autobiography of Dalai Lama?

- Ans
- ☒ 1. Walk This Way
 - ☐ 2. Freedom in Exile
 - ☐ 3. My Life
 - ☐ 4. Living History

Question ID : 630680278385
Option 1 ID : 6306801081900
Option 2 ID : 6306801081898
Option 3 ID : 6306801081899
Option 4 ID : 6306801081897
Status : Answered
Chosen Option : 3

Q.8 According to the recently updated data by the World Bank in 2022, what is the poverty line level of urban areas in India?

- Ans
- ☒ 1. Rs 1200-1300 per month
 - ☐ 2. Rs 1000-1100 per month
 - ☐ 3. Rs 1500-1600 per month
 - ☐ 4. Rs 800-900 per month

Question ID : 630680278381
Option 1 ID : 6306801081881
Option 2 ID : 6306801081883
Option 3 ID : 6306801081884
Option 4 ID : 6306801081882
Status : Not Answered
Chosen Option : --

Q.9 _____ is a scheme meant to increase the Wi-fi access throughout the country.

- Ans
- ☐ 1. Pradhan Mantri Jan Dhan Yojana
 - ☐ 2. Swachh Bharat Abhiyan
 - ☒ 3. PM-WANI
 - ☐ 4. Make in India

Question ID : 630680278379
Option 1 ID : 6306801081875
Option 2 ID : 6306801081876
Option 3 ID : 6306801081873
Option 4 ID : 6306801081874
Status : Answered
Chosen Option : 3

Q.10 Which among the following Hindu festivals is dedicated to Surya, the Sun God?

- Ans
- ☐ 1. Maghi
 - ☐ 2. Holi
 - ☐ 3. Dussehra
 - ☒ 4. Chhath

Question ID : 630680278389
Option 1 ID : 6306801081914
Option 2 ID : 6306801081916
Option 3 ID : 6306801081913
Option 4 ID : 6306801081915
Status : Answered
Chosen Option : 4

Q.11 Who among the following built the Quwwat Al Islam mosque in Delhi and the Adhai-din-ka-Jhonpra mosque in Ajmer?

- Ans
- ☒ 1. Alaudiin Khilji
 - ☒ 2. Ibrahim Lodi
 - ☒ 3. Iltutmish
 - ☒ 4. Qutubuddin Aibak

Question ID : 630680278400
Option 1 ID : 6306801081959
Option 2 ID : 6306801081960
Option 3 ID : 6306801081958
Option 4 ID : 6306801081957
Status : Answered
Chosen Option : 4

Q.12 Which among the following team won the 2023 Women T20 Cricket World Cup?

- Ans
- ☒ 1. South Africa
 - ☒ 2. Sri Lanka
 - ☒ 3. Australia
 - ☒ 4. India

Question ID : 630680278383
Option 1 ID : 6306801081890
Option 2 ID : 6306801081889
Option 3 ID : 6306801081891
Option 4 ID : 6306801081892
Status : Answered
Chosen Option : 4

Q.13 Transparency International has released the Corruption Perceptions Index (CPI) 2021 in which India has been ranked at ____th spot.

- Ans
- ☒ 1. 85
 - ☒ 2. 70
 - ☒ 3. 75
 - ☒ 4. 80

Question ID : 630680278380
Option 1 ID : 6306801081880
Option 2 ID : 6306801081877
Option 3 ID : 6306801081878
Option 4 ID : 6306801081879
Status : Answered
Chosen Option : 1

Q.14 The latest Sahitya Akademi Award analyses and evaluates literary works written in how many languages?

- Ans
- ☒ 1. 18
 - ☒ 2. 24
 - ☒ 3. 20
 - ☒ 4. 26

Question ID : 630680278386
Option 1 ID : 6306801081902
Option 2 ID : 6306801081903
Option 3 ID : 6306801081904
Option 4 ID : 6306801081901
Status : Answered
Chosen Option : 2

Q.15 Which of the following languages is not considered one of the classical languages of India?

- Ans
- ☒ 1. Kannada
 - ☒ 2. Odia
 - ☒ 3. Urdu
 - ☒ 4. Malayalam

Question ID : 630680278390
Option 1 ID : 6306801081918
Option 2 ID : 6306801081920
Option 3 ID : 6306801081917
Option 4 ID : 6306801081919
Status : Answered
Chosen Option : 3

Q.16 Who among the following leaders was not associated with the Arya Samaj, a reform movement founded by Swami Dayananda Saraswati?

- Ans
- ☒ 1. Swami Shraddhanand
 - ☒ 2. Pandit Lekh Ram
 - ☒ 3. Lala Lajpat Rai
 - ☒ 4. Swami Virajanand Dandeesha

Question ID : 630680278404
Option 1 ID : 6306801081974
Option 2 ID : 6306801081973
Option 3 ID : 6306801081976
Option 4 ID : 6306801081975
Status : Answered
Chosen Option : 3

Q.17 Mahavira Jayanti, which celebrates the birthday of Mahavira, is observed in the month of _____.

- Ans
- ☒ 1. July
 - ☒ 2. June
 - ☒ 3. May
 - ☒ 4. April

Question ID : 630680278387
Option 1 ID : 6306801081908
Option 2 ID : 6306801081907
Option 3 ID : 6306801081906
Option 4 ID : 6306801081905
Status : Answered
Chosen Option : 3

Q.18 _____refers to the physical or social separation of people based on characteristics such as race, ethnicity, or gender.

- Ans
- ☒ 1. Assimilation
 - ☒ 2. Integration
 - ☒ 3. Segregation
 - ☒ 4. Pluralism

Question ID : 630680278398
Option 1 ID : 6306801081950
Option 2 ID : 6306801081951
Option 3 ID : 6306801081952
Option 4 ID : 6306801081949
Status : Answered
Chosen Option : 3

Q.19 The Central Institute of Indian Languages was established in which year?

- Ans
- ☒ 1. 1979
 - ☒ 2. 1972
 - ☒ 3. 1985
 - ☒ 4. 1969

Question ID : 630680278391
Option 1 ID : 6306801081924
Option 2 ID : 6306801081921
Option 3 ID : 6306801081923
Option 4 ID : 6306801081922
Status : Not Answered
Chosen Option : --

Q.20 The President nominates _____members of the Rajya Sabha.

- Ans
- ☒ 1. 14
 - ☒ 2. 12
 - ☒ 3. 16
 - ☒ 4. 18

Question ID : 630680278406
Option 1 ID : 6306801081982
Option 2 ID : 6306801081981
Option 3 ID : 6306801081983
Option 4 ID : 6306801081984
Status : Answered
Chosen Option : 2

Q.21 Kharchi Puja, celebrated in Tripura, is a sacred procedure of offering reverence to _____.

- Ans
- ☒ 1. Earth
 - ☒ 2. Sun
 - ☒ 3. Wind
 - ☒ 4. Moon

Question ID : 630680278388
Option 1 ID : 6306801081909
Option 2 ID : 6306801081910
Option 3 ID : 6306801081912
Option 4 ID : 6306801081911
Status : Answered
Chosen Option : 1

Q.22 The Rowlatt Act, which authorized the British government to detain individuals without trial, was passed in which year?

- Ans
- ☒ 1. 1901
 - ☒ 2. 1919
 - ☒ 3. 1925
 - ☒ 4. 1909

Question ID : 630680278401
Option 1 ID : 6306801081963
Option 2 ID : 6306801081962
Option 3 ID : 6306801081961
Option 4 ID : 6306801081964
Status : Answered
Chosen Option : 2

Q.23 The unemployment arising from the mismatch between the jobs available in the market and the skills of the available workers in the market is called _____.

- Ans
- ☒ 1. Disguised
 - ☒ 2. Structural
 - ☒ 3. Cyclical
 - ☒ 4. Seasonal

Question ID : 630680278392
Option 1 ID : 6306801081925
Option 2 ID : 6306801081927
Option 3 ID : 6306801081928
Option 4 ID : 6306801081926
Status : Answered
Chosen Option : 1

Q.24 Which among the following is the first moon mission of India?

- Ans
- ☒ 1. Astrosat
 - ☒ 2. Chandrayan-II
 - ☒ 3. Gaganyaan-I
 - ☒ 4. Chandrayan-I

Question ID : 630680278408
Option 1 ID : 6306801081989
Option 2 ID : 6306801081990
Option 3 ID : 6306801081992
Option 4 ID : 6306801081991
Status : Answered
Chosen Option : 4

Q.25 Which among the following winds is a tertiary wind?

- Ans
- ☒ 1. Easterlies
 - ☒ 2. Loo
 - ☒ 3. Westerlies
 - ☒ 4. Monsoon Wind

Question ID : 630680278396
Option 1 ID : 6306801081942
Option 2 ID : 6306801081944
Option 3 ID : 6306801081943
Option 4 ID : 6306801081941
Status : Not Answered
Chosen Option : --

Q.26 The Bardoli Satyagraha, a successful peasant movement against increased land taxes, was led by which Indian leader?

- Ans
- ☒ 1. Subhas Chandra Bose
 - ☒ 2. Jawaharlal Nehru
 - ☒ 3. Mahatma Gandhi
 - ☒ 4. Sardar Vallabhbhai Patel

Question ID : 630680278403
Option 1 ID : 6306801081971
Option 2 ID : 6306801081970
Option 3 ID : 6306801081969
Option 4 ID : 6306801081972
Status : Answered
Chosen Option : 4

Q.27 Who among the following has been awarded the Laureus World Sportsman of the Year 2023?

- Ans
- ☒ 1. Cristiano Ronaldo
 - ☒ 2. Shubhman Gill
 - ☒ 3. Virat Kohli
 - ☒ 4. Lionel Messi

Question ID : 630680278382
 Option 1 ID : 6306801081887
 Option 2 ID : 6306801081885
 Option 3 ID : 6306801081886
 Option 4 ID : 6306801081888
 Status : Answered
 Chosen Option : 4

Q.28 Who among the following is the fastest player to score 5000 runs in One Day International (ODI) cricket?

- Ans
- ☒ 1. Virat Kohli
 - ☒ 2. David Warner
 - ☒ 3. Hashim Amla
 - ☒ 4. Babar Azam

Question ID : 630680278384
 Option 1 ID : 6306801081895
 Option 2 ID : 6306801081896
 Option 3 ID : 6306801081893
 Option 4 ID : 6306801081894
 Status : Answered
 Chosen Option : 4

Q.29 Which microfinance institution became the first in India to be listed on the stock exchange?

- Ans
- ☒ 1. Bandhan Bank
 - ☒ 2. Ujjivan Financial Services
 - ☒ 3. Bharat Financial Inclusion Limited
 - ☒ 4. SKS Microfinance

Question ID : 630680278393
 Option 1 ID : 6306801081931
 Option 2 ID : 6306801081930
 Option 3 ID : 6306801081932
 Option 4 ID : 6306801081929
 Status : Answered
 Chosen Option : 3

Q.30 According to the Census 2011, which among the following states has the lowest female literacy rate?

- Ans ☒ 1. Rajasthan
☐ 2. Telangana
☐ 3. West Bengal
☐ 4. Bihar

Question ID : 630680278399
Option 1 ID : 6306801081955
Option 2 ID : 6306801081954
Option 3 ID : 6306801081956
Option 4 ID : 6306801081953
Status : Answered
Chosen Option : 4

Section : Reasoning

Q.1 A, B, C, D and E live in a five-floor building, each floor having only one flat. The bottommost floor is numbered as 1 and the floor immediately above it is numbered as 2 and so on. B lives three floors beneath A's floor. A does not live on the top floor. E lives on a floor just above C. Who stays on the top floor?

- Ans ☐ 1. B
☐ 2. E
☐ 3. C
☒ 4. D

Question ID : 630680278428
Option 1 ID : 6306801082070
Option 2 ID : 6306801082069
Option 3 ID : 6306801082072
Option 4 ID : 6306801082071
Status : Answered
Chosen Option : 4

Q.2 Four letter-clusters have been given, out of which three are alike in some manner and one is different. Select the odd letter-cluster.

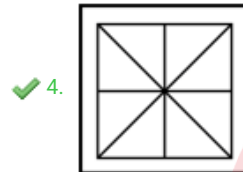
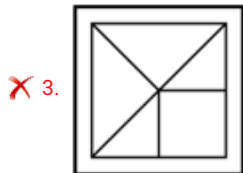
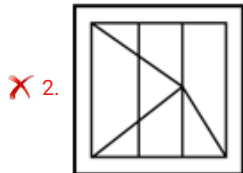
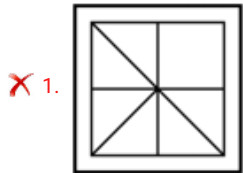
- Ans ☐ 1. SRT
☐ 2. MLN
☐ 3. IHJ
☒ 4. KLM

Question ID : 630680278424
Option 1 ID : 6306801082056
Option 2 ID : 6306801082053
Option 3 ID : 6306801082055
Option 4 ID : 6306801082054
Status : Answered
Chosen Option : 4

Q.3 From the given answer figures, select the one in which the question figure is embedded.



Ans



Question ID : 630680278436
Option 1 ID : 6306801082102
Option 2 ID : 6306801082104
Option 3 ID : 6306801082103
Option 4 ID : 6306801082101
Status : Answered
Chosen Option : 4

Q.4 Pointing to a woman, Shreya said, "Her son is my mother's husband." How is the woman related to Shreya?

- Ans
- ✗ 1. Mother-in-law
 - ✗ 2. Sister
 - ✗ 3. Mother
 - ✓ 4. Grandmother

Question ID : 630680278418
Option 1 ID : 6306801082030
Option 2 ID : 6306801082031
Option 3 ID : 6306801082029
Option 4 ID : 6306801082032
Status : Answered
Chosen Option : 4

Q.5 Select the option that is related to the third letter cluster in the same way as the second letter cluster is related to the first letter cluster.
MAT : NZG :: LOVE : ?

- Ans
- ✗ 1. PKFU
 - ✗ 2. OKFV
 - ✗ 3. PLEU
 - ✓ 4. OLEV

Question ID : 630680278421
Option 1 ID : 6306801082042
Option 2 ID : 6306801082043
Option 3 ID : 6306801082044
Option 4 ID : 6306801082041
Status : Answered
Chosen Option : 4

Q.6 Anil visits five cities namely Delhi, Mathura, Gurgaon, Agra, and Jaipur on different days of a week from Monday to Friday. He visits Delhi three days after visiting Mathura. He visits Agra on Tuesday and he visits Gurgaon after visiting Delhi. On which day he visits Jaipur?

- Ans
- ✗ 1. Thursday
 - ✓ 2. Wednesday
 - ✗ 3. Monday
 - ✗ 4. Friday

Question ID : 630680278427
Option 1 ID : 6306801082066
Option 2 ID : 6306801082068
Option 3 ID : 6306801082065
Option 4 ID : 6306801082067
Status : Answered
Chosen Option : 2

Q.7 Arrange the given words in the alphabetical order.
1. Obnoxious
2. Oblivion
3. Ostentatious
4. Opulent

- Ans
- ✗ 1. 2314
 - ✓ 2. 2143
 - ✗ 3. 1423
 - ✗ 4. 2431

Question ID : 630680278414
Option 1 ID : 6306801082015
Option 2 ID : 6306801082014
Option 3 ID : 6306801082013
Option 4 ID : 6306801082016
Status : Answered
Chosen Option : 2

Q.8 If 'M × N' means 'M is the sister of N'.
If 'M + N' means 'M is the brother of N'.
If 'M ÷ N' means 'N is the son of M'.
If 'M – N' means 'M is the husband of N'.
How is T related to X in the expression 'X × Y + Z – R ÷ T' ?

- Ans
- ☒ 1. Brother
 - ☒ 2. Son
 - ☒ 3. Brother's son
 - ☒ 4. Sister's son

Question ID : 630680278417
Option 1 ID : 6306801082028
Option 2 ID : 6306801082027
Option 3 ID : 6306801082026
Option 4 ID : 6306801082025
Status : Answered
Chosen Option : 3

Q.9 How many letters are there in the given series that are immediately preceded by a consonant and immediately followed by a consonant?
ERA@YFIQOPU#LJIWS@

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

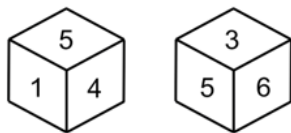
Question ID : 630680278416
Option 1 ID : 6306801082024
Option 2 ID : 6306801082022
Option 3 ID : 6306801082023
Option 4 ID : 6306801082021
Status : Answered
Chosen Option : 2

Q.10 Which of the following numbers will be a number of the given series?
11, 18, 25, 32, 39,

- Ans
- ☒ 1. 347
 - ☒ 2. 421
 - ☒ 3. 574
 - ☒ 4. 222

Question ID : 630680278413
Option 1 ID : 6306801082011
Option 2 ID : 6306801082012
Option 3 ID : 6306801082009
Option 4 ID : 6306801082010
Status : Not Attempted and Marked For Review
Chosen Option : --

Q.11 Two different positions of the same dice are given below. Find the number opposite of 3.



- Ans
- ✓ 1. 4
 - ✗ 2. 5
 - ✗ 3. 1
 - ✗ 4. 6

Question ID : 630680278435
 Option 1 ID : 6306801082099
 Option 2 ID : 6306801082098
 Option 3 ID : 6306801082097
 Option 4 ID : 6306801082100
 Status : Answered
 Chosen Option : 1

Q.12 In the question, a statement is given, followed by two conclusions, I and II. You have to decide which of the given conclusions, if any, follows from the given statement.
 Statement: $H < I > J$, $L < M = H$
 Conclusion I: $L < J$
 Conclusion II: $J > H$

- Ans
- ✗ 1. Only I follows
 - ✗ 2. Only II follows
 - ✓ 3. Neither I nor II follows
 - ✗ 4. Both I and II follows

Question ID : 630680278419
 Option 1 ID : 6306801082033
 Option 2 ID : 6306801082034
 Option 3 ID : 6306801082036
 Option 4 ID : 6306801082035
 Status : Answered
 Chosen Option : 3

Q.13 Calculate the sum of 6.75, 8.91, and 4.25 and round the answer to two decimal places.

- Ans
- ✗ 1. 18.34
 - ✓ 2. 19.91
 - ✗ 3. 16.43
 - ✗ 4. 14.67

Question ID : 630680278410
 Option 1 ID : 6306801081999
 Option 2 ID : 6306801082000
 Option 3 ID : 6306801081998
 Option 4 ID : 6306801081997
 Status : Answered
 Chosen Option : 2

Q.14 Which of the following numbers will replace the question mark (?) in the given series?
113, ?, 226, 678, 2712

- Ans
- ☒ 1. 176
 - ☒ 2. 187
 - ☒ 3. 165
 - ☒ 4. 113

Question ID : 630680278412
Option 1 ID : 6306801082006
Option 2 ID : 6306801082008
Option 3 ID : 6306801082007
Option 4 ID : 6306801082005
Status : Answered
Chosen Option : 4

Q.15 Four words have been given, out of which three are alike in some manner and one is different. Select the word.

- Ans
- ☒ 1. Melancholy
 - ☒ 2. Euphoria
 - ☒ 3. Elation
 - ☒ 4. Joy

Question ID : 630680278425
Option 1 ID : 6306801082057
Option 2 ID : 6306801082060
Option 3 ID : 6306801082058
Option 4 ID : 6306801082059
Status : Answered
Chosen Option : 1

Q.16 How many numbers are there in the given series that are immediately preceded by a symbol and immediately followed by another symbol?
2 % 5 @ 3 * \$ 6 & 1 ^ ? 0 \$ 3 @

- Ans
- ☒ 1. 6
 - ☒ 2. 9
 - ☒ 3. 5
 - ☒ 4. 7

Question ID : 630680278415
Option 1 ID : 6306801082019
Option 2 ID : 6306801082020
Option 3 ID : 6306801082018
Option 4 ID : 6306801082017
Status : Answered
Chosen Option : 4

Q.17 Sunaina finds that in a row of girls, she is eighth from the right and 17th from the left. How many girls must be added to the row such that there are 30 girls in the row?

- Ans

1. 3

2. 6

3. 5

4. 4

Question ID : 630680278429
 Option 1 ID : 6306801082074
 Option 2 ID : 6306801082075
 Option 3 ID : 6306801082076
 Option 4 ID : 6306801082073
 Status : Answered
 Chosen Option : 2

Q.18 Four word pairs have been given, out of which three are alike in some manner and one is different. Select the odd word pair.

- Ans

1. Teacher : School

2. Doctor : Hospital

3. Pope : Temple

4. Lawyer : Court

Question ID : 630680278426
 Option 1 ID : 6306801082063
 Option 2 ID : 6306801082061
 Option 3 ID : 6306801082064
 Option 4 ID : 6306801082062
 Status : Answered
 Chosen Option : 3

Q.19 Which two numbers should be interchanged to make the given equation correct?
 $12 + 15 - 21 \div 3 \times 2 = 17$

- Ans

1. 15 & 17

2. 12 & 15

3. 17 & 21

4. 3 & 2

Question ID : 630680278409
 Option 1 ID : 6306801081994
 Option 2 ID : 6306801081993
 Option 3 ID : 6306801081995
 Option 4 ID : 6306801081996
 Status : Answered
 Chosen Option : 1

Q.20 Three Statements are given followed by two conclusions numbered I and II. Assuming the statements to be true, even if they seem to be at variance with commonly known facts, decide which of the conclusions logically follow(s) from the statements.

Statements:
Some cups are plates.
All plates are bowls.
No bowl is a spoon.

Conclusions:
I. All cups being bowls is a possibility.
II. Some cups are spoons.

- Ans

✖

1. Only conclusion II follows

✔

2. Only conclusion I follows

✖

3. Both conclusions I and II follow

✖

4. Neither conclusion I nor II follows

Question ID : 630680278434

Option 1 ID : 6306801082094

Option 2 ID : 6306801082093

Option 3 ID : 6306801082095

Option 4 ID : 6306801082096

Status : Answered

Chosen Option : 4

Q.21 Seven friends Anand, Binod, Rishi, Sameer, Gautam, Mukesh, Sanjay are sitting around a circular table facing the centre. Rishi and Gautam are not sitting next to each other. Sanjay is sitting between Binod and Mukesh. Mukesh is sitting to the immediate left of Rishi. Sameer is sitting between Anand and Gautam. Who is sitting to the immediate left of Anand?

- Ans

✖

1. Sanjay

✖

2. Binod

✔

3. Rishi

✖

4. Sameer

Question ID : 630680278430

Option 1 ID : 6306801082080

Option 2 ID : 6306801082079

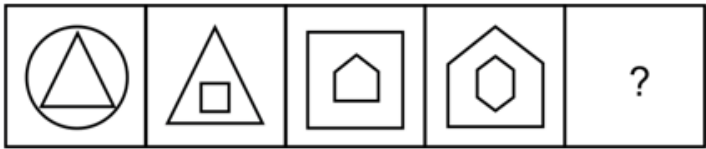
Option 3 ID : 6306801082077

Option 4 ID : 6306801082078

Status : Answered

Chosen Option : 3

Q.22 Which of the following answer figure completes the question figure?



Ans

- ✖ 1.
- ✖ 2.
- ✖ 3.
- ✔ 4.

Question ID : 630680278438
Option 1 ID : 6306801082109
Option 2 ID : 6306801082110
Option 3 ID : 6306801082111
Option 4 ID : 6306801082112
Status : Answered
Chosen Option : 4

Q.23 In the question, a statement is given, followed by two conclusions, I and II. You have to decide which of the given conclusions, if any, follows from the given statement.
Statement: $A < B < C = D, D \geq F > E$
Conclusion I: $A < D$
Conclusion II: $C \geq F$

- ✔ 1. Both I and II follows
- ✖ 2. Only I follows
- ✖ 3. Neither I nor II follows
- ✖ 4. Only II follows

Question ID : 630680278420
Option 1 ID : 6306801082039
Option 2 ID : 6306801082037
Option 3 ID : 6306801082040
Option 4 ID : 6306801082038
Status : Answered
Chosen Option : 2

Q.24 Which of the following numbers will replace the question mark (?) in the given series?
1728, 2744, 4096, 5832, ?

- Ans
-  1. 8324

 2. 8000

 3. 7856

 4. 8100

Question ID : 630680278411
 Option 1 ID : 6306801082004
 Option 2 ID : 6306801082003
 Option 3 ID : 6306801082001
 Option 4 ID : 6306801082002
 Status : Answered
 Chosen Option : 2

Q.25 Select the option that is related to the third word in the same way as the second word is related to the first word.
Dentist : Teeth :: Optometrist : ?

- Ans
-  1. Mouth

 2. Ears

 3. Eyes

 4. Lungs

Question ID : 630680278423
 Option 1 ID : 6306801082051
 Option 2 ID : 6306801082052
 Option 3 ID : 6306801082049
 Option 4 ID : 6306801082050
 Status : Answered
 Chosen Option : 3

Q.26 Two statements are given followed by two conclusions numbered I and II. Assuming the statements to be true, even if they seem to be at variance with commonly known facts, decide which of the conclusions logically follow(s) from the statements.
Statements:
Some mountains are seas.
No sea is a land.
Conclusions:
I. Some mountains are land.
II. No land is a sea.

- Ans
-  1. Neither conclusion I nor II follows

 2. Both conclusions I and II follow

 3. Only conclusion I follows

 4. Only conclusion II follows

Question ID : 630680278433
 Option 1 ID : 6306801082092
 Option 2 ID : 6306801082091
 Option 3 ID : 6306801082089
 Option 4 ID : 6306801082090
 Status : Answered
 Chosen Option : 4

Q.27 Select the option that is related to the third word in the same way as the second word is related to the first word.
Indoor : Carrom :: Outdoor : ?

- Ans
- ☒ 1. Chess
 - ☒ 2. Hockey
 - ☒ 3. Ludo
 - ☒ 4. Bowling

Question ID : 630680278422
Option 1 ID : 6306801082045
Option 2 ID : 6306801082048
Option 3 ID : 6306801082046
Option 4 ID : 6306801082047
Status : Answered
Chosen Option : 2

Q.28 Choose the figure which is different from the rest.

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

Question ID : 630680278437
Option 1 ID : 6306801082107
Option 2 ID : 6306801082108
Option 3 ID : 6306801082106
Option 4 ID : 6306801082105
Status : Answered
Chosen Option : 3

Q.29 Five boys H, I, J, K, and L are seating in a row facing north. K is seating to the immediate right of J. L is sitting exactly in between H and I. No one sits to the left of H. Who sits to the immediate right of I?

- Ans
- ☒ 1. L
 - ☒ 2. K
 - ☒ 3. J
 - ☒ 4. H

Question ID : 630680278431
Option 1 ID : 6306801082083
Option 2 ID : 6306801082081
Option 3 ID : 6306801082082
Option 4 ID : 6306801082084
Status : Answered
Chosen Option : 3

Q.30 There are eight persons A, B, C, D, E, F, G and H are sitting around a square table in such a way that four of them sit at the corners while four sit in the middle of each of the four sides. The ones who sit at the four corners face outside the centre while those who sit in the middle of the sides face inside. B sits second to the right of A. C sits third to the left of H who sits to the immediate right of A. E sits third to the left of F. C faces inside. G sits second to the left of F. Who sits opposite to B?

- Ans
- ☒ 1. F
 - ☒ 2. E
 - ☒ 3. H
 - ☒ 4. A

Question ID : 630680278432
Option 1 ID : 6306801082085
Option 2 ID : 6306801082086
Option 3 ID : 6306801082088
Option 4 ID : 6306801082087
Status : Answered
Chosen Option : 2

Section : Domain Knowledge

Q.1 What does a vertical amplifier provides to an oscilloscope?

- Ans
- ☒ 1. High pulse response
 - ☒ 2. Both high bandwidth and high sensitivity
 - ☒ 3. High bandwidth
 - ☒ 4. High sensitivity

Question ID : 630680277984
Option 1 ID : 6306801080296
Option 2 ID : 6306801080295
Option 3 ID : 6306801080293
Option 4 ID : 6306801080294
Status : Not Answered
Chosen Option : --

Q.2 What is provided over the bedding of an underground cable to protect it from mechanical injury?

- Ans
- ☒ 1. Insulation
 - ☒ 2. Serving
 - ☒ 3. Armouring
 - ☒ 4. Metallic sheath

Question ID : 630680277967
Option 1 ID : 6306801080227
Option 2 ID : 6306801080225
Option 3 ID : 6306801080226
Option 4 ID : 6306801080228
Status : Answered
Chosen Option : 3

Q.3 Which are the two junctions of a bipolar junction transistor?

- Ans
- ☒ 1. Emitter collector and Collector base
 - ☒ 2. Emitter base and Collector emitter
 - ☒ 3. PN and NP junction
 - ☒ 4. Emitter base and collector base

Question ID : 630680278084
Option 1 ID : 6306801080694
Option 2 ID : 6306801080695
Option 3 ID : 6306801080693
Option 4 ID : 6306801080696
Status : Answered
Chosen Option : 4

Q.4 Why is a single phase induction motor non-self starting?

- Ans
- ☒ 1. Its stator winding produces a pulsating flux.
 - ☒ 2. Its stator winding produces a non-pulsating flux.
 - ☒ 3. Its stator winding produces a rotation flux.
 - ☒ 4. Its stator winding produces a revolving flux.

Question ID : 630680278064
Option 1 ID : 6306801080616
Option 2 ID : 6306801080613
Option 3 ID : 6306801080615
Option 4 ID : 6306801080614
Status : Answered
Chosen Option : 1

Q.5 Which of the following parameters can be neglected in case of a short transmission line?

- Ans
- ☒ 1. Inductive reactance
 - ☒ 2. Shunt capacitance
 - ☒ 3. Resistance
 - ☒ 4. Impedance

Question ID : 630680277965
Option 1 ID : 6306801080219
Option 2 ID : 6306801080218
Option 3 ID : 6306801080217
Option 4 ID : 6306801080220
Status : Answered
Chosen Option : 2

Q.6 Which of the following tenders allow suppliers to submit tenders only by invitation?

- Ans

✖

1. First-stage tender

✖

2. Open tender

✔

3. Selective tender

✖

4. Negotiated tender

Question ID : 630680278027

Option 1 ID : 6306801080468

Option 2 ID : 6306801080467

Option 3 ID : 6306801080466

Option 4 ID : 6306801080465

Status : Answered

Chosen Option : 3

Q.7 By what angle does the current phasor lag the voltage phasor in an a.c. circuit ?

- Ans

✔

1. θ

✖

2. 2θ

✖

3. $\sin^2\theta$

✖

4. $2\sin\theta$

Question ID : 630680278003

Option 1 ID : 6306801080369

Option 2 ID : 6306801080370

Option 3 ID : 6306801080372

Option 4 ID : 6306801080371

Status : Answered

Chosen Option : 1

Q.8 Which method is used to measure the input power in a no-load test?

- Ans

✖

1. 3-Wattmeter method

✔

2. 2-Wattmeter method

✖

3. 4-Wattmeter method

✖

4. 1-Wattmeter method

Question ID : 630680277964

Option 1 ID : 6306801080215

Option 2 ID : 6306801080213

Option 3 ID : 6306801080216

Option 4 ID : 6306801080214

Status : Answered

Chosen Option : 2

Q.9 In a three phase AC distribution, when is the current passing through the neutral maximum?

- Ans

✖

1. When the load is balanced

✖

2. When the load is maximum

✖

3. When the load is zero

✔

4. When the load is unbalanced

Question ID : 630680277969

Option 1 ID : 6306801080234

Option 2 ID : 6306801080236

Option 3 ID : 6306801080235

Option 4 ID : 6306801080233

Status : Answered

Chosen Option : 4

Q.10

If I is the total current in the circuit and R_1 and R_2 are the two resistors connected in parallel, what will be the current division I_2 flowing through the resistor R_2 ?

Ans

✖

1. $I_2 = (R_1 + R_2) / R_1$

✖

2. $I_2 = I (R_1 + R_2) / R_1$

✔

3. $I_2 = I (R_1 / R_1 + R_2)$

✖

4. $I_2 = R_1 / (R_1 + R_2)$

Question ID : 630680278030

Option 1 ID : 6306801080480

Option 2 ID : 6306801080479

Option 3 ID : 6306801080477

Option 4 ID : 6306801080478

Status : Answered

Chosen Option : 3

Q.11

Why is the depletion region of a p-n junction called so?

Ans

✔

1. It is devoid of free charge

✖

2. It is devoid of fixed ions

✖

3. It is devoid of immobile positive ions

✖

4. It is devoid of immobile negative ions

Question ID : 630680278082

Option 1 ID : 6306801080685

Option 2 ID : 6306801080688

Option 3 ID : 6306801080686

Option 4 ID : 6306801080687

Status : Answered

Chosen Option : 1

Q.12

Which of the following is a type of ferromagnetic material?

Ans

✖

1. Tin

✔

2. Iron

✖

3. Copper

✖

4. Magnesium

Question ID : 630680278004

Option 1 ID : 6306801080374

Option 2 ID : 6306801080376

Option 3 ID : 6306801080375

Option 4 ID : 6306801080373

Status : Answered

Chosen Option : 2

Q.13

What is the input current in a CB configuration of a BJT?

Ans

✔

1. Emitter current

✖

2. Collector current

✖

3. Sum of base and collector current

✖

4. Base current

Question ID : 630680278091

Option 1 ID : 6306801080721

Option 2 ID : 6306801080723

Option 3 ID : 6306801080724

Option 4 ID : 6306801080722

Status : Answered

Chosen Option : 4

Q.14 What is the number of revolutions of the disc per kWh of energy consumption called?

- Ans
- ☒ 1. Physical constant
 - ☒ 2. Driving torque
 - ☒ 3. Meter constant
 - ☒ 4. Braking torque

Question ID : 630680277978

Option 1 ID : 6306801080272

Option 2 ID : 6306801080270

Option 3 ID : 6306801080271

Option 4 ID : 6306801080269

Status : Answered

Chosen Option : 3

Q.15 What generates changing magnetic field in a synchronous generator?

- Ans
- ☒ 1. Rotating rotor
 - ☒ 2. Rotating armature winding
 - ☒ 3. Prime mover
 - ☒ 4. Rotor field winding

Question ID : 630680278058

Option 1 ID : 6306801080589

Option 2 ID : 6306801080590

Option 3 ID : 6306801080591

Option 4 ID : 6306801080592

Status : Answered

Chosen Option : 4

Q.16 What is the role of auxiliary power systems in thermal power plants?

- Ans
- ☒ 1. To allow steam cycle to circulate securely
 - ☒ 2. Generate the necessary torque
 - ☒ 3. Provide the necessary phase shift
 - ☒ 4. Use as less as input energy possible

Question ID : 630680278052

Option 1 ID : 6306801080566

Option 2 ID : 6306801080567

Option 3 ID : 6306801080568

Option 4 ID : 6306801080565

Status : Answered

Chosen Option : 1

Q.17 What is the area between gates of a field effect transistor called?

- Ans
- ☒ 1. Source terminal
 - ☒ 2. Channel
 - ☒ 3. Drain terminal
 - ☒ 4. Gate terminal

Question ID : 630680278088

Option 1 ID : 6306801080710

Option 2 ID : 6306801080711

Option 3 ID : 6306801080712

Option 4 ID : 6306801080709

Status : Answered

Chosen Option : 2

Q.18 Which of the following is also known as a line shaft drive?

- Ans

 1. Multi motor drives

 2. Group drives

 3. Individual drives

 4. Eddy current drive

Question ID : 630680278080

Option 1 ID : 6306801080679

Option 2 ID : 6306801080678

Option 3 ID : 6306801080677

Option 4 ID : 6306801080680

Status : Answered

Chosen Option : 2

Q.19 Which of the following is a cold cathode and low pressure lamp?

- Ans

 1. Mercury vapor lamp

 2. Incandescent lamp

 3. Neon gas lamp

 4. Sodium vapor lamp

Question ID : 630680278079

Option 1 ID : 6306801080674

Option 2 ID : 6306801080676

Option 3 ID : 6306801080675

Option 4 ID : 6306801080673

Status : Answered

Chosen Option : 3

Q.20 How are three phases connected in a delta connection?

- Ans

 1. In a loop

 2. At a central point

 3. In a zig-zag pattern

 4. At the end terminal of one winding

Question ID : 630680277995

Option 1 ID : 6306801080339

Option 2 ID : 6306801080337

Option 3 ID : 6306801080338

Option 4 ID : 6306801080340

Status : Answered

Chosen Option : 1

Q.21 बाहरी इंस्टालेशन में, अनावृत संवाहको और विद्युन्मय भागों के लिए न्यूनतम कितनी सुरक्षा कार्य की स्पष्टता बनाए रखा जाएगा?

- Ans

 1. 4.5 m

 2. 1.9 m

 3. 2.6 m

 4. 3.2 m

Question ID : 630680278024

Option 1 ID : 6306801080456

Option 2 ID : 6306801080455

Option 3 ID : 6306801080453

Option 4 ID : 6306801080454

Status : Answered

Chosen Option : 1

Q.22 In an A.C. circuit through resistance and capacitance in series, the drop across capacitor V lags current I by ____?

- Ans
- ✓ 1. $\pi/2$
 - ✗ 2. $1/2\pi$
 - ✗ 3. 2π
 - ✗ 4. π^2

Question ID : 630680277992
Option 1 ID : 6306801080327
Option 2 ID : 6306801080325
Option 3 ID : 6306801080326
Option 4 ID : 6306801080328
Status : Answered
Chosen Option : 1

Q.23 In which of the following methods are external devices like small induction motor used to bring rotor near to synchronous motor?

- Ans
- ✓ 1. Pony motors method
 - ✗ 2. Damper winding method
 - ✗ 3. As a slip ring induction motor method
 - ✗ 4. Small D.C. Machine method

Question ID : 630680278060
Option 1 ID : 6306801080598
Option 2 ID : 6306801080597
Option 3 ID : 6306801080599
Option 4 ID : 6306801080600
Status : Answered
Chosen Option : 1

Q.24 In an open-circuit test, what does the wattmeter reading represent?

- Ans
- ✗ 1. The core loss under full-load conditions
 - ✗ 2. Secondary Cu loss
 - ✓ 3. The core loss under no-load conditions
 - ✗ 4. Primary Cu loss

Question ID : 630680277958
Option 1 ID : 6306801080192
Option 2 ID : 6306801080191
Option 3 ID : 6306801080190
Option 4 ID : 6306801080189
Status : Answered
Chosen Option : 3

Q.25 Which of the following generators wind energy systems do not use?

- Ans
- ✗ 1. DC generators
 - ✗ 2. Induction generators
 - ✗ 3. Synchronous generators
 - ✓ 4. Asynchronous generators

Question ID : 630680278046
Option 1 ID : 6306801080541
Option 2 ID : 6306801080544
Option 3 ID : 6306801080542
Option 4 ID : 6306801080543
Status : Answered
Chosen Option : 3

Q.26 How many terminals are there in a field effect transistor?

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

Question ID : 630680278085
Option 1 ID : 6306801080700
Option 2 ID : 6306801080697
Option 3 ID : 6306801080699
Option 4 ID : 6306801080698
Status : Answered
Chosen Option : 3

Q.27 To measure the amplitude using CRO, where is the input voltage applied?

- Ans
- ☒ 1. Perpendicularly on the horizontal plates
 - ☒ 2. On vertical deflection plates
 - ☒ 3. On horizontal plates
 - ☒ 4. Perpendicularly on the vertical plates

Question ID : 630680277982
Option 1 ID : 6306801080287
Option 2 ID : 6306801080286
Option 3 ID : 6306801080285
Option 4 ID : 6306801080288
Status : Answered
Chosen Option : 2

Q.28 What happens when the back e.m.f. of a synchronous motor is lesser in magnitude than the supply voltage?

- Ans
- ☒ 1. The power factor of motor becomes unity.
 - ☒ 2. The power factor of motor becomes zero.
 - ☒ 3. The motor has a lagging power factor.
 - ☒ 4. The motor has a leading power factor.

Question ID : 630680278068
Option 1 ID : 6306801080631
Option 2 ID : 6306801080632
Option 3 ID : 6306801080630
Option 4 ID : 6306801080629
Status : Answered
Chosen Option : 3

Q.29 What determines the amount of electricity a wind turbine can generate?

- Ans
- ☒ 1. Length of transmission line
 - ☒ 2. Length of blades
 - ☒ 3. Type of transformer
 - ☒ 4. Type of substation

Question ID : 630680278051
Option 1 ID : 6306801080562
Option 2 ID : 6306801080561
Option 3 ID : 6306801080563
Option 4 ID : 6306801080564
Status : Answered
Chosen Option : 2

Q.30 How is the deflecting torque in a PMMC type instrument calculated?

- Ans
-  1. Force $\times$ flux density

 2. Force $\div$ perpendicular distance

 3. Force $\div$ flux density

 4. Force $\times$ perpendicular distance

Question ID : 630680277980

Option 1 ID : 6306801080279

Option 2 ID : 6306801080278

Option 3 ID : 6306801080280

Option 4 ID : 6306801080277

Status : Answered

Chosen Option : 1

Q.31 Which of the following electrical signals are continuous in values and discrete in time?

- Ans
-  1. Sampled signals

 2. Quantized signals

 3. Analog signals

 4. Digital signals

Question ID : 630680278031

Option 1 ID : 6306801080483

Option 2 ID : 6306801080484

Option 3 ID : 6306801080481

Option 4 ID : 6306801080482

Status : Answered

Chosen Option : 3

Q.32 What is the deflection in galvanometer when a magnet is placed at the same position (near the coil) while performing Faraday's experiment?

- Ans
-  1. No deflection in the galvanometer

 2. Deflection in the galvanometer in the same direction

 3. Initial deflection in the same direction and then the opposite direction

 4. Deflection in the galvanometer in the opposite direction

Question ID : 630680278036

Option 1 ID : 6306801080503

Option 2 ID : 6306801080501

Option 3 ID : 6306801080504

Option 4 ID : 6306801080502

Status : Answered

Chosen Option : 2

Q.33 Which of the following contracts is also known as fixed fee contract?

- Ans
-  1. Cost plus contract

 2. Incentive contract

 3. Lump sum contract

 4. Unit price contract

Question ID : 630680278026

Option 1 ID : 6306801080462

Option 2 ID : 6306801080464

Option 3 ID : 6306801080463

Option 4 ID : 6306801080461

Status : Answered

Chosen Option : 4

Q.34 Why are hydroturbines fitted with governor?

- Ans
- ☐ 1. To keep the load constant
 - ☐ 2. To control the flow rate of steam
 - ☐ 3. To control the power
 - ☒ 4. To keep the speed constant

Question ID : 630680278047
Option 1 ID : 6306801080547
Option 2 ID : 6306801080548
Option 3 ID : 6306801080546
Option 4 ID : 6306801080545
Status : Answered
Chosen Option : 4

Q.35 Which of the following has the highest curie temperature?

- Ans
- ☐ 1. Iron
 - ☐ 2. Nickel
 - ☐ 3. Magnite
 - ☒ 4. Cobalt

Question ID : 630680278013
Option 1 ID : 6306801080410
Option 2 ID : 6306801080412
Option 3 ID : 6306801080411
Option 4 ID : 6306801080409
Status : Answered
Chosen Option : 1

Q.36 How is the total labour cost calculated for commercial buildings?

- Ans
- ☐ 1. 2(Labour cost for point wiring + Labour cost for fabricating switchboard/ distribution board)
 - ☐ 2. 2(Labour cost for point wiring × Labour cost for fabricating switchboard/ distribution board)
 - ☐ 3. Labour cost for point wiring × Labour cost for fabricating switchboard/ distribution board
 - ☒ 4. Labour cost for point wiring + Labour cost for fabricating switchboard/ distribution board

Question ID : 630680278022
Option 1 ID : 6306801080446
Option 2 ID : 6306801080445
Option 3 ID : 6306801080447
Option 4 ID : 6306801080448
Status : Answered
Chosen Option : 4

Q.37 Before the input signal is supplied to DC amplifier in an AC voltmeter, what is done to the signal?

- Ans

✔ 1. The input signal is rectified.

✘ 2. The input signal if fed to PMMC meter.

✘ 3. The current of the input signal is balanced.

✘ 4. The input signal is fed to a multistage amplifier.

Question ID : 630680277979

Option 1 ID : 6306801080273

Option 2 ID : 6306801080274

Option 3 ID : 6306801080276

Option 4 ID : 6306801080275

Status : Answered

Chosen Option : 1

Q.38 What is the approximate value of junction voltage for Ge (Germanium) p-n junction?

- Ans

✘ 1. 0.9V

✘ 2. 0.7V

✘ 3. 0.11V

✔ 4. 0.3V

Question ID : 630680278089

Option 1 ID : 6306801080715

Option 2 ID : 6306801080714

Option 3 ID : 6306801080716

Option 4 ID : 6306801080713

Status : Answered

Chosen Option : 4

Q.39 Which of the following method is used to calculate depreciation charge?

- Ans

✘ 1. Gradient method

✘ 2. Stamp method

✘ 3. Annual cost method

✔ 4. Straight line method

Question ID : 630680278041

Option 1 ID : 6306801080522

Option 2 ID : 6306801080524

Option 3 ID : 6306801080521

Option 4 ID : 6306801080523

Status : Answered

Chosen Option : 4

Q.40 Which of the following is true for hard magnetic materials?

- Ans

✔ 1. They have high coercivity.

✘ 2. They have low coercivity.

✘ 3. They have low hysteresis loss.

✘ 4. They have high permeability.

Question ID : 630680278011

Option 1 ID : 6306801080403

Option 2 ID : 6306801080404

Option 3 ID : 6306801080402

Option 4 ID : 6306801080401

Status : Answered

Chosen Option : 1

Q.41 What does contingencies include?

- Ans ☒ 1. Unexpected expenditure due to increase in cost rate of the material and loss due to any reasons
- ☐ 2. General office expenses and rent
- ☐ 3. Rates of lighting and heating, depreciation of furniture and office equipment
- ☐ 4. Procuring items required for the installation

Question ID : 630680278016
Option 1 ID : 6306801080424
Option 2 ID : 6306801080422
Option 3 ID : 6306801080421
Option 4 ID : 6306801080423
Status : Answered
Chosen Option : 1

Q.42 How much power does a perfect inductor dissipate?

- Ans ☐ 1. Less than unity
- ☐ 2. Maximum
- ☐ 3. Greater than unity
- ☒ 4. Zero

Question ID : 630680278001
Option 1 ID : 6306801080361
Option 2 ID : 6306801080363
Option 3 ID : 6306801080364
Option 4 ID : 6306801080362
Status : Answered
Chosen Option : 4

Q.43 Which of the following types of electrical heating is also known as eddy current heating?

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

Question ID : 630680278074
Option 1 ID : 6306801080656
Option 2 ID : 6306801080654
Option 3 ID : 6306801080653
Option 4 ID : 6306801080655
Status : Answered
Chosen Option : 2

Q.44 Which of the following is a type of high frequency electrical heating?

- Ans ☐ 1. Arc heating
- ☐ 2. Direct arc heating
- ☒ 3. Infrared heating
- ☐ 4. Resistance heating

Question ID : 630680278073
Option 1 ID : 6306801080650
Option 2 ID : 6306801080651
Option 3 ID : 6306801080652
Option 4 ID : 6306801080649
Status : Answered
Chosen Option : 3

Q.45 In which direction of magnetic field does the forefinger point in Fleming's right hand rule?

- Ans

 1. Direction of induced current

 2. Direction of motion

 3. Direction of applied current

 4. Direction of the lines of flux

Question ID : 630680278040
 Option 1 ID : 6306801080518
 Option 2 ID : 6306801080517
 Option 3 ID : 6306801080519
 Option 4 ID : 6306801080520
 Status : Answered
 Chosen Option : 4

Q.46 What are the conductors which connect substations to consumer ports called?

- Ans

 1. Feeders

 2. Distributors

 3. Sub main

 4. Service main

Question ID : 630680277968
 Option 1 ID : 6306801080231
 Option 2 ID : 6306801080230
 Option 3 ID : 6306801080232
 Option 4 ID : 6306801080229
 Status : Answered
 Chosen Option : 4

Q.47 In which of the following speed control methods can several speeds be obtained by regrouping the field coils?

- Ans

 1. Field divertor

 2. Armature divertor

 3. Paralleling field coils

 4. Tapped field control

Question ID : 630680277955
 Option 1 ID : 6306801080178
 Option 2 ID : 6306801080179
 Option 3 ID : 6306801080180
 Option 4 ID : 6306801080177
 Status : Answered
 Chosen Option : 3

Q.48 The working principle of CRO is based on what?

- Ans

 1. Electrostatic force

 2. Nuclear force

 3. Frictional force

 4. Spring force.

Question ID : 630680277981
 Option 1 ID : 6306801080282
 Option 2 ID : 6306801080283
 Option 3 ID : 6306801080284
 Option 4 ID : 6306801080281
 Status : Answered
 Chosen Option : 1

Q.49 What is the purpose of serving in construction of an underground cable?

- Ans ☒ 1. It protects the armouring from atmospheric conditions.
- ☐ 2. It protects the metallic sheath against corrosion.
- ☐ 3. It protects the cable from breaking while laying and handling it.
- ☐ 4. It protects the insulation material from moisture.

Question ID : 630680277974
Option 1 ID : 6306801080255
Option 2 ID : 6306801080254
Option 3 ID : 6306801080256
Option 4 ID : 6306801080253
Status : Answered
Chosen Option : 1

Q.50 Why does risk factor appear at high voltage levels in auto transformers?

- Ans ☒ 1. Because there is no electrical isolation between primary and secondary
- ☐ 2. Due to high impedance
- ☐ 3. Because of non-continuous variation of voltage
- ☐ 4. Due to high copper loss

Question ID : 630680277961
Option 1 ID : 6306801080204
Option 2 ID : 6306801080201
Option 3 ID : 6306801080203
Option 4 ID : 6306801080202
Status : Answered
Chosen Option : 1

Q.51 Which device helps in conveniently changing the alternating voltage to any desired value in an AC distribution system?

- Ans ☐ 1. Voltage converter
- ☐ 2. AC voltage controllers
- ☐ 3. AC regulator
- ☒ 4. Transformer

Question ID : 630680277975
Option 1 ID : 6306801080259
Option 2 ID : 6306801080257
Option 3 ID : 6306801080258
Option 4 ID : 6306801080260
Status : Answered
Chosen Option : 4

Q.52 ____ estimates are mid project and involve choosing between several options when the end product is not completely defined.

- Ans ☐ 1. Feasibility
- ☐ 2. Substantive
- ☒ 3. Preliminary
- ☐ 4. Definitive

Question ID : 630680278025
Option 1 ID : 6306801080457
Option 2 ID : 6306801080459
Option 3 ID : 6306801080460
Option 4 ID : 6306801080458
Status : Not Answered
Chosen Option : --

Q.53 If the inductance of a solenoid is 0.24 H and current flowing is 2 Amperes, find the energy stored in the magnetic field.

- Ans
- ✓ 1. 0.48 Joules
 - ✗ 2. 0.47 Joules
 - ✗ 3. 0.49 Joules
 - ✗ 4. 0.50 Joules

Question ID : 630680278035
Option 1 ID : 6306801080497
Option 2 ID : 6306801080498
Option 3 ID : 6306801080499
Option 4 ID : 6306801080500
Status : Answered
Chosen Option : 1

Q.54 What does the depletion layer of a p-n junction behaves like?

- Ans
- ✗ 1. Like a resistor
 - ✗ 2. Like a capacitor
 - ✗ 3. Like a conductor
 - ✓ 4. Like an insulator

Question ID : 630680278086
Option 1 ID : 6306801080702
Option 2 ID : 6306801080704
Option 3 ID : 6306801080703
Option 4 ID : 6306801080701
Status : Answered
Chosen Option : 4

Q.55 What is the power rating of synchronous motors?

- Ans
- ✗ 1. 130kW to 20MW
 - ✗ 2. 120kW to 15MW
 - ✗ 3. 110kW to 20MW
 - ✓ 4. 150kW to 15MW

Question ID : 630680278059
Option 1 ID : 6306801080596
Option 2 ID : 6306801080593
Option 3 ID : 6306801080595
Option 4 ID : 6306801080594
Status : Answered
Chosen Option : 4

Q.56 In which type of junctions do Zener Breakdown occurs?

- Ans
- ✗ 1. Junctions with wide depletion layers
 - ✗ 2. Junctions with weak electric field
 - ✗ 3. Junctions with strong electric field
 - ✓ 4. Junctions with narrow depletion layers

Question ID : 630680278083
Option 1 ID : 6306801080689
Option 2 ID : 6306801080691
Option 3 ID : 6306801080692
Option 4 ID : 6306801080690
Status : Answered
Chosen Option : 4

Q.57 What does the shape of lissajous figures depend on?

- Ans

1. Amplitude and phase angle only

2. Phase angle and amplitude only

3. Phase angle, amplitude and ratio of frequency of the two waves

4. Amplitude and ratio of frequency of the two waves

Question ID : 630680277983
 Option 1 ID : 6306801080289
 Option 2 ID : 6306801080290
 Option 3 ID : 6306801080291
 Option 4 ID : 6306801080292
 Status : Answered
 Chosen Option : 3

Q.58 What generates power in a fuel-powered fractional horsepower motor?

- Ans

1. Permanent magnet

2. External supply

3. Coil

4. Exhaust valves

Question ID : 630680278062
 Option 1 ID : 6306801080607
 Option 2 ID : 6306801080608
 Option 3 ID : 6306801080606
 Option 4 ID : 6306801080605
 Status : Answered
 Chosen Option : 1

Q.59 What governs the principle that an external magnetic field exerts a force on a current-carrying conductor?

- Ans

1. Fleming's right hand rule

2. Fleming's left hand rule

3. Right hand grip rule

4. Lorentz force formula

Question ID : 630680278034
 Option 1 ID : 6306801080494
 Option 2 ID : 6306801080493
 Option 3 ID : 6306801080496
 Option 4 ID : 6306801080495
 Status : Answered
 Chosen Option : 2

Q.60 If Φ is the phase angle, what happens to the current in AC parallel circuit if $\tan \Phi$ is positive?

- Ans

1. It becomes 0.

2. It becomes equal to the applied voltage.

3. It lags behind the applied voltage.

4. It leads the applied voltage.

Question ID : 630680277989
 Option 1 ID : 6306801080316
 Option 2 ID : 6306801080314
 Option 3 ID : 6306801080313
 Option 4 ID : 6306801080315
 Status : Answered
 Chosen Option : 3

Q.61 What will be the self inductance (L) of a coil having N turns and carrying a current of I amperes?

- Ans

✓

1. $N\Phi/I$

✗

2. NI/Φ

✗

3. $2N/I\Phi$

✗

4. $N/2I\Phi$

Question ID : 630680278039

Option 1 ID : 6306801080513

Option 2 ID : 6306801080514

Option 3 ID : 6306801080515

Option 4 ID : 6306801080516

Status : Answered

Chosen Option : 1

Q.62 How is the heat produced by the resistance to the flow of current in resistance welding represented?

- Ans

✗

1. $H=IRt$

✓

2. $H=I^2Rt$

✗

3. $H=I/Rt$

✗

4. $H=I^2R/t$

Question ID : 630680278077

Option 1 ID : 6306801080667

Option 2 ID : 6306801080665

Option 3 ID : 6306801080666

Option 4 ID : 6306801080668

Status : Answered

Chosen Option : 2

Q.63 In case of a failure or disconnection of the supply or a break in the field circuit, which protective device releases the arm and allows the spring to bring it back to OFF position?

- Ans

✓

1. Hold-on coil

✗

2. Over-current release

✗

3. Electromagnet

✗

4. Over-load release

Question ID : 630680277956

Option 1 ID : 6306801080183

Option 2 ID : 6306801080181

Option 3 ID : 6306801080184

Option 4 ID : 6306801080182

Status : Answered

Chosen Option : 1

Q.64 If V and I represent the r.m.s values, how is the average power consumed in a series A.C. circuit represented?

- Ans
- ✓ 1. $V I \cos \Phi$
 - ✗ 2. $V/I \cos \Phi$
 - ✗ 3. $V I \tan \Phi$
 - ✗ 4. $V/I \tan \Phi$

Question ID : 630680277991
Option 1 ID : 6306801080324
Option 2 ID : 6306801080322
Option 3 ID : 6306801080323
Option 4 ID : 6306801080321
Status : Answered
Chosen Option : 1

Q.65 In overhead line conductors, what impedes the flow of current from conductors to the earth?

- Ans
- ✗ 1. Power conductors
 - ✓ 2. Insulators
 - ✗ 3. Insulated coating
 - ✗ 4. Ground wires

Question ID : 630680277966
Option 1 ID : 6306801080222
Option 2 ID : 6306801080223
Option 3 ID : 6306801080221
Option 4 ID : 6306801080224
Status : Answered
Chosen Option : 2

Q.66 How is permeability of a magnetic material represented?

- Ans
- ✗ 1. Φ
 - ✗ 2. X
 - ✓ 3. μ
 - ✗ 4. Ψ

Question ID : 630680278032
Option 1 ID : 6306801080488
Option 2 ID : 6306801080486
Option 3 ID : 6306801080487
Option 4 ID : 6306801080485
Status : Answered
Chosen Option : 3

Q.67 What is the pole strength developed per unit area of the bar called?

- Ans
- ✗ 1. Flux density
 - ✗ 2. Susceptibility
 - ✗ 3. Magnetic potential
 - ✓ 4. Intensity of magnetisation

Question ID : 630680278010
Option 1 ID : 6306801080400
Option 2 ID : 6306801080398
Option 3 ID : 6306801080397
Option 4 ID : 6306801080399
Status : Answered
Chosen Option : 1

Q.68 Why does self induced and mutually induced e.m.f. across two coils connected in series have a negative sign?

- Ans

✔

1. Because they are in the opposite direction to the applied e.m.f.

✖

2. Because they both have a negative value.

✖

3. Because they both carry negative charge.

✖

4. Because they are in opposite direction of the velocity of the charge.

Question ID : 630680278037

Option 1 ID : 6306801080506

Option 2 ID : 6306801080505

Option 3 ID : 6306801080507

Option 4 ID : 6306801080508

Status : Answered

Chosen Option : 1

Q.69 What is an electricity generation facility used and managed by an industrial or commercial energy user for their own energy consumption called?

- Ans

✖

1. Joint power generation

✖

2. Integrated power generation

✔

3. Captive power generation

✖

4. Non-captive power generation

Question ID : 630680278054

Option 1 ID : 6306801080574

Option 2 ID : 6306801080575

Option 3 ID : 6306801080573

Option 4 ID : 6306801080576

Status : Answered

Chosen Option : 3

Q.70 What produces magnetic field?

- Ans

✖

1. Motion of nucleus

✖

2. Motion of neutrons

✖

3. Motion of protons

✔

4. Motion of electrons

Question ID : 630680278006

Option 1 ID : 6306801080384

Option 2 ID : 6306801080382

Option 3 ID : 6306801080381

Option 4 ID : 6306801080383

Status : Answered

Chosen Option : 4

Q.71 Which of the following processes is used in nuclear power plants?

- Ans

✖

1. Nuclear fusion

✖

2. Transmutation

✖

3. Nuclear decay

✔

4. Nuclear fission

Question ID : 630680278048

Option 1 ID : 6306801080549

Option 2 ID : 6306801080552

Option 3 ID : 6306801080551

Option 4 ID : 6306801080550

Status : Answered

Chosen Option : 4

Q.72 What is the power factor of single phase AC circuits?

- Ans
- ☒ 1. Sin Φ
 - ☒ 2. Cos Φ
 - ☒ 3. 1/ Sin Φ
 - ☒ 4. 1/ Cos Φ

Question ID : 630680278000
Option 1 ID : 6306801080359
Option 2 ID : 6306801080357
Option 3 ID : 6306801080360
Option 4 ID : 6306801080358
Status : Answered
Chosen Option : 2

Q.73 How can the power factor of a single phase synchronous motor be varied?

- Ans
- ☒ 1. By varying rotor field excitation
 - ☒ 2. By varying the external supply
 - ☒ 3. By varying the supply voltage
 - ☒ 4. By varying the rotor pole flux

Question ID : 630680278061
Option 1 ID : 6306801080601
Option 2 ID : 6306801080604
Option 3 ID : 6306801080602
Option 4 ID : 6306801080603
Status : Answered
Chosen Option : 1

Q.74 What can be done to increase or decrease the length of arc in arc heating?

- Ans
- ☒ 1. Vary the current flow through the heater element
 - ☒ 2. Vary the arc temperature
 - ☒ 3. Tap a transformer in the primary winding
 - ☒ 4. Move the electrode upward and downward to change the gap between the two electrodes

Question ID : 630680278081
Option 1 ID : 6306801080684
Option 2 ID : 6306801080682
Option 3 ID : 6306801080681
Option 4 ID : 6306801080683
Status : Answered
Chosen Option : 1

Q.75 Which of the following best describes a grid system fault in the context of power generation economics?

- Ans
- ☒ 1. A mechanical failure in one of the power plants leading to a temporary shutdown.
 - ☒ 2. A situation where the production of electricity exceeds the demand.
 - ☒ 3. An operational failure in the electrical grid system that interrupts the distribution of electricity.
 - ☒ 4. A surge in demand leading to inflated prices for electricity.

Question ID : 630680278043
Option 1 ID : 6306801080531
Option 2 ID : 6306801080530
Option 3 ID : 6306801080532
Option 4 ID : 6306801080529
Status : Answered
Chosen Option : 3

Q.76 Which of the following describes the temperature dependent susceptibility in paramagnetic materials?

- Ans
- ☒ 1. Faraday's law
 - ☒ 2. Gauss's law
 - ☒ 3. Curie law
 - ☒ 4. Solenoid rule

Question ID : 630680278007
Option 1 ID : 6306801080385
Option 2 ID : 6306801080388
Option 3 ID : 6306801080386
Option 4 ID : 6306801080387
Status : Answered
Chosen Option : 3

Q.77 What is the phenomenon of the magnetic locking between the stator and rotor teeth of an induction motor at the time of starting called?

- Ans
- ☒ 1. Cogging
 - ☒ 2. Crawling
 - ☒ 3. Hunting
 - ☒ 4. Undershoots

Question ID : 630680278069
Option 1 ID : 6306801080633
Option 2 ID : 6306801080634
Option 3 ID : 6306801080635
Option 4 ID : 6306801080636
Status : Answered
Chosen Option : 1

Q.78 What is the ratio of electric power input to its average candle power called?

- Ans
- ☒ 1. Lamp efficiency
 - ☒ 2. Specific consumption
 - ☒ 3. Reduction factor
 - ☒ 4. Maintenance factor

Question ID : 630680278078
Option 1 ID : 6306801080670
Option 2 ID : 6306801080672
Option 3 ID : 6306801080669
Option 4 ID : 6306801080671
Status : Answered
Chosen Option : 2

Q.79 If the reading of three wattmeters are W_1 , W_2 and W_3 respectively, then what will be the total power delivered in a three phase system?

- Ans
- ☒ 1. $W_1 W_2 W_3$
 - ☒ 2. $2(W_1 W_2 W_3)$
 - ☒ 3. $W_1 + W_2 + W_3$
 - ☒ 4. $2(W_1 + W_2 + W_3)$

Question ID : 630680277977
Option 1 ID : 6306801080265
Option 2 ID : 6306801080268
Option 3 ID : 6306801080266
Option 4 ID : 6306801080267
Status : Answered
Chosen Option : 3

Q.80 What is the stator in brush series motors?

- Ans
- ☒ 1. Permanent magnets
 - ☐ 2. Armature
 - ☐ 3. Axle
 - ☐ 4. Commutator

Question ID : 630680278071
Option 1 ID : 6306801080642
Option 2 ID : 6306801080641
Option 3 ID : 6306801080644
Option 4 ID : 6306801080643
Status : Answered
Chosen Option : 2

Q.81 How is the bandwidth of an oscilloscope specified?

- Ans
- ☐ 1. Bandwidth = Frequency $\times$ 3
 - ☒ 2. Bandwidth = Frequency $\times$ 5
 - ☐ 3. Bandwidth = Frequency / 3
 - ☐ 4. Bandwidth = Frequency / 5

Question ID : 630680277985
Option 1 ID : 6306801080299
Option 2 ID : 6306801080297
Option 3 ID : 6306801080300
Option 4 ID : 6306801080298
Status : Not Answered
Chosen Option : --

Q.82 For how much voltage are high tension cables used?

- Ans
- ☐ 1. 2.2 kV and above
 - ☒ 2. 1.1 kV - 11 kV
 - ☐ 3. Up to 2.2 kV
 - ☐ 4. 1.1-2.2 kV

Question ID : 630680278023
Option 1 ID : 6306801080449
Option 2 ID : 6306801080450
Option 3 ID : 6306801080452
Option 4 ID : 6306801080451
Status : Answered
Chosen Option : 2

Q.83 Where is biomass burned to produce high pressure steam?

- Ans
- ☐ 1. Burner
 - ☐ 2. Alternator
 - ☒ 3. Boiler
 - ☐ 4. Steamer

Question ID : 630680278044
Option 1 ID : 6306801080533
Option 2 ID : 6306801080536
Option 3 ID : 6306801080534
Option 4 ID : 6306801080535
Status : Answered
Chosen Option : 3

Q.84 Which of the following is also called insulated-gate FET?

- Ans ☒ 1. Depletion-enhancement MOSFET
- ☒ 2. Junction field effect transistor
- ☒ 3. Enhancement only MOSFET
- ☒ 4. Metal-oxide semiconductor FET

Question ID : 630680278092
Option 1 ID : 6306801080725
Option 2 ID : 6306801080727
Option 3 ID : 6306801080726
Option 4 ID : 6306801080728
Status : Answered
Chosen Option : 1

Q.85 Why do capacitor start induction run motors have a high starting torque?

- Ans ☒ 1. Because their phase angle is very low.
- ☒ 2. Because they have very high power consumption.
- ☒ 3. Because their phase angle is very high.
- ☒ 4. Because they have low power consumption.

Question ID : 630680278063
Option 1 ID : 6306801080609
Option 2 ID : 6306801080612
Option 3 ID : 6306801080610
Option 4 ID : 6306801080611
Status : Answered
Chosen Option : 3

Q.86 What is the synchronous reactance of an alternator on load?

- Ans ☒ 1. Vector product of armature resistance and armature leakage reactance
- ☒ 2. Vector sum of armature resistance and armature leakage reactance
- ☒ 3. Vector sum of fictitious reactance and armature leakage reactance
- ☒ 4. Vector product of fictitious reactance and armature leakage reactance

Question ID : 630680278067
Option 1 ID : 6306801080627
Option 2 ID : 6306801080628
Option 3 ID : 6306801080626
Option 4 ID : 6306801080625
Status : Answered
Chosen Option : 2

Q.87 What does the p-n junction breakdown voltage depend on?

- Ans ☒ 1. Magnitude of flux density
- ☒ 2. Equilibrium carrier concentration
- ☒ 3. Width of depletion region
- ☒ 4. Strength of electric field

Question ID : 630680278087
Option 1 ID : 6306801080705
Option 2 ID : 6306801080708
Option 3 ID : 6306801080707
Option 4 ID : 6306801080706
Status : Answered
Chosen Option : 3

Q.88 How is resonant frequency represented in a series R-L-C A.C. circuit?

- Ans

 1. $f_o = \sqrt{LC}$

 2. $f_o = 1/\sqrt{LC}$

 3. $f_o = 2\pi\sqrt{LC}$

 4. $f_o = 1/(2\pi\sqrt{LC})$

Question ID : 630680277993

Option 1 ID : 6306801080332

Option 2 ID : 6306801080331

Option 3 ID : 6306801080330

Option 4 ID : 6306801080329

Status : Answered

Chosen Option : 4

Q.89 What is connected to the fan motor to change the frequency and control the fan's speed?

- Ans

 1. Frequency inverter

 2. Stepper motor

 3. Rotor

 4. Compressor

Question ID : 630680278070

Option 1 ID : 6306801080639

Option 2 ID : 6306801080638

Option 3 ID : 6306801080640

Option 4 ID : 6306801080637

Status : Answered

Chosen Option : 1

Q.90 Why are circular cylindrical coils used in most of the core type transformers?

- Ans

 1. Because of their mechanical strength

 2. Because they are easy to insulate

 3. Because of imbricated staggered joints

 4. Because of their low reluctance

Question ID : 630680277960

Option 1 ID : 6306801080199

Option 2 ID : 6306801080200

Option 3 ID : 6306801080198

Option 4 ID : 6306801080197

Status : Answered

Chosen Option : 1

Q.91 What is the ratio of small change in input to small change in output called?

- Ans

 1. Depreciated fuel cost

 2. Incremental fuel cost

 3. Capitalised cost

 4. Capital cost ratio

Question ID : 630680278053

Option 1 ID : 6306801080572

Option 2 ID : 6306801080571

Option 3 ID : 6306801080570

Option 4 ID : 6306801080569

Status : Not Answered

Chosen Option : --

Q.92 What does the width of depletion region of a p-n junction depend on?

- Ans

1. Doping level
2. Electric field strength
3. Junction resistance
4. Breakdown voltage

Question ID : 630680278090

Option 1 ID : 6306801080718

Option 2 ID : 6306801080720

Option 3 ID : 6306801080719

Option 4 ID : 6306801080717

Status : Answered

Chosen Option : 1

Q.93 The electrical installation work in India must be according to what?

- Ans

1. Indian Electricity Act 1910
2. Indian Electricity Act 2003
3. Indian Electricity Rules 1930
4. Indian Electricity Rules 1956

Question ID : 630680278020

Option 1 ID : 6306801080438

Option 2 ID : 6306801080439

Option 3 ID : 6306801080440

Option 4 ID : 6306801080437

Status : Answered

Chosen Option : 2

Q.94 What is the work done in moving a unit positive charge from the point of lower potential to the point of higher potential in an electric field called?

- Ans

1. Work done on the body
2. Electric potential difference between the two points
3. Electric potential
4. Potential energy gained by the body

Question ID : 630680278029

Option 1 ID : 6306801080473

Option 2 ID : 6306801080474

Option 3 ID : 6306801080476

Option 4 ID : 6306801080475

Status : Answered

Chosen Option : 3

Q.95 What among the following does extended feeder length leads to?

- Ans

1. Low FR losses in the line
2. High FR losses in the line
3. Low current in the line
4. High voltage in the line

Question ID : 630680277971

Option 1 ID : 6306801080241

Option 2 ID : 6306801080242

Option 3 ID : 6306801080243

Option 4 ID : 6306801080244

Status : Answered

Chosen Option : 2

Q.96 What happens to the field strength as the distance from the conductor increases?

- Ans ☐ 1. The field strength remains constant.
- ☒ 2. The field strength decreases.
- ☐ 3. The field strength becomes maximum.
- ☐ 4. The field strength also increases.

Question ID : 630680278014
Option 1 ID : 6306801080416
Option 2 ID : 6306801080414
Option 3 ID : 6306801080415
Option 4 ID : 6306801080413
Status : Answered
Chosen Option : 2

Q.97 In which of the following estimates based on accuracy, the project must be defined around 0-5%?

- Ans ☐ 1. Feasibility
- ☐ 2. Definitive
- ☐ 3. Preliminary
- ☒ 4. Order of magnitude

Question ID : 630680278015
Option 1 ID : 6306801080417
Option 2 ID : 6306801080420
Option 3 ID : 6306801080418
Option 4 ID : 6306801080419
Status : Not Answered
Chosen Option : --

Q.98 Which transformer is used to supply a distribution circuit having no motors connected to it?

- Ans ☐ 1. Isolation transformer
- ☐ 2. Pad-mounted transformer
- ☒ 3. Lighting transformer
- ☐ 4. Pulse transformer

Question ID : 630680277963
Option 1 ID : 6306801080209
Option 2 ID : 6306801080211
Option 3 ID : 6306801080210
Option 4 ID : 6306801080212
Status : Answered
Chosen Option : 1

Q.99 In a R-L-C circuit, what is the value of impedance (Z) at resonance?

- Ans ☒ 1. R ohm
- ☐ 2. $1/R^2$ ohm
- ☐ 3. R^2 ohm
- ☐ 4. $\sqrt{R}$ ohm

Question ID : 630680278002
Option 1 ID : 6306801080367
Option 2 ID : 6306801080368
Option 3 ID : 6306801080365
Option 4 ID : 6306801080366
Status : Answered
Chosen Option : 1

Q.100 For which of the following devices are fractional HP synchronous motors used?

- Ans
- ☒ 1. Blowers
 - ☒ 2. Centrifugal pumps
 - ☒ 3. Powering clocks and timing devices
 - ☒ 4. Washing machines

Question ID : 630680278055
Option 1 ID : 6306801080580
Option 2 ID : 6306801080578
Option 3 ID : 6306801080579
Option 4 ID : 6306801080577
Status : Answered
Chosen Option : 3

Q.101 Which of the following have a small but positive relative permeability?

- Ans
- ☒ 1. Ferromagnetic materials
 - ☒ 2. Soft ferromagnetic materials
 - ☒ 3. Paramagnetic materials
 - ☒ 4. Ferrites

Question ID : 630680278005
Option 1 ID : 6306801080378
Option 2 ID : 6306801080380
Option 3 ID : 6306801080377
Option 4 ID : 6306801080379
Status : Answered
Chosen Option : 3

Q.102 Why are synchronous phase modifiers installed in synchronous substations?

- Ans
- ☒ 1. For switching operations of the power lines
 - ☒ 2. To improve the power factor of the system
 - ☒ 3. To reduce the reactive power
 - ☒ 4. To improve the phase angle

Question ID : 630680277970
Option 1 ID : 6306801080237
Option 2 ID : 6306801080239
Option 3 ID : 6306801080240
Option 4 ID : 6306801080238
Status : Answered
Chosen Option : 2

Q.103 What is the role of unshaded winding in a shaded pole motor?

- Ans
- ☒ 1. Create a lower strength magnetic field
 - ☒ 2. Control rotational speed
 - ☒ 3. Increase the torque after motor has started
 - ☒ 4. Acts as a secondary winding

Question ID : 630680278056
Option 1 ID : 6306801080581
Option 2 ID : 6306801080584
Option 3 ID : 6306801080583
Option 4 ID : 6306801080582
Status : Answered
Chosen Option : 1

Q.104 If P is the number of poles and N is the rotational speed of rotor, how is the frequency of induced alternating e.m.f. of an alternator represented?

- Ans
- ☒ 1. $2P/N$
 - ☒ 2. $PN/360$
 - ☒ 3. P/N
 - ☒ 4. $PN/120$

Question ID : 630680278066
 Option 1 ID : 6306801080624
 Option 2 ID : 6306801080623
 Option 3 ID : 6306801080622
 Option 4 ID : 6306801080621
 Status : Answered
 Chosen Option : 4

Q.105 The admittance of a parallel circuit is defined as what?

- Ans
- ☒ 1. Product of its impedance and inductance
 - ☒ 2. Reciprocal of its resistance
 - ☒ 3. Product of its impedance and resistance
 - ☒ 4. Reciprocal of its impedance

Question ID : 630680277997
 Option 1 ID : 6306801080346
 Option 2 ID : 6306801080347
 Option 3 ID : 6306801080345
 Option 4 ID : 6306801080348
 Status : Answered
 Chosen Option : 4

Q.106 How is the total admittance (Y) calculated while applying admittance method in parallel circuits?

- Ans
- ☒ 1. $Y = \sqrt{G^2 - B^2}$
 - ☒ 2. $Y = \sqrt{G^2 + B^2}$
 - ☒ 3. $Y = \sqrt{G^2 B^2}$
 - ☒ 4. $Y = \sqrt{G^2 \div B^2}$

Question ID : 630680277990
 Option 1 ID : 6306801080318
 Option 2 ID : 6306801080317
 Option 3 ID : 6306801080319
 Option 4 ID : 6306801080320
 Status : Answered
 Chosen Option : 2

Q.107 What is the direction of magnetic lines of force inside the magnet?

- Ans
- ☒ 1. South pole to North pole
 - ☒ 2. North pole to South pole
 - ☒ 3. The direction depends on the type of magnetic material
 - ☒ 4. The direction depends on the reluctance path

Question ID : 630680278033
 Option 1 ID : 6306801080490
 Option 2 ID : 6306801080489
 Option 3 ID : 6306801080491
 Option 4 ID : 6306801080492
 Status : Answered
 Chosen Option : 1

Q.108 When is delta star connection mainly used?

- Ans
- ☐ 1. In a step down transformer at the substation end of transmission line
 - ☐ 2. In a step down transformer at the beginning of transmission line
 - ☐ 3. In a step up transformer at the substation end of transmission line
 - ☒ 4. In a step up transformer at the beginning of transmission line

Question ID : 630680277962
Option 1 ID : 6306801080208
Option 2 ID : 6306801080206
Option 3 ID : 6306801080207
Option 4 ID : 6306801080205
Status : Answered
Chosen Option : 4

Q.109 Which of the following can be applied to only linear networks?

- Ans
- ☐ 1. Tellegen's theorem
 - ☒ 2. Superposition theorem
 - ☐ 3. Reciprocity theorem
 - ☐ 4. Thevenin's theorem

Question ID : 630680277996
Option 1 ID : 6306801080344
Option 2 ID : 6306801080341
Option 3 ID : 6306801080342
Option 4 ID : 6306801080343
Status : Answered
Chosen Option : 2

Q.110 How can the resultant circuit current in vector method of solving parallel circuits be found?

- Ans
- ☐ 1. By using Pythagoras's law of vectors.
 - ☒ 2. By using parallelogram law of vectors.
 - ☐ 3. By using triangle law of vectors.
 - ☐ 4. By using commutative law of vectors.

Question ID : 630680277998
Option 1 ID : 6306801080350
Option 2 ID : 6306801080351
Option 3 ID : 6306801080349
Option 4 ID : 6306801080352
Status : Answered
Chosen Option : 2

Q.111 Which of the following magnetic materials have relative permeability slightly less than unity?

- Ans
- ☐ 1. Ferromagnetic substances
 - ☒ 2. Diamagnetic substances
 - ☐ 3. Paramagnetic substances
 - ☐ 4. Ferrites

Question ID : 630680278008
Option 1 ID : 6306801080389
Option 2 ID : 6306801080392
Option 3 ID : 6306801080391
Option 4 ID : 6306801080390
Status : Answered
Chosen Option : 2

Q.112 What does the terminal voltage V of an alternator varies with?

- Ans
- ☐ 1. Power factor only
 - ☐ 2. Load, power factor and phase angle
 - ☐ 3. Load only
 - ☒ 4. Both load and power factor

Question ID : 630680278065
Option 1 ID : 6306801080618
Option 2 ID : 6306801080620
Option 3 ID : 6306801080617
Option 4 ID : 6306801080619
Status : Answered
Chosen Option : 2

Q.113 Which type of magnetic materials are used for making permanent magnets?

- Ans
- ☒ 1. Hard magnetic materials
 - ☐ 2. Paramagnetic materials
 - ☐ 3. Diamagnetic material
 - ☐ 4. Soft magnetic materials

Question ID : 630680278012
Option 1 ID : 6306801080406
Option 2 ID : 6306801080405
Option 3 ID : 6306801080408
Option 4 ID : 6306801080407
Status : Answered
Chosen Option : 1

Q.114 Which of the following is an emission from biomass combustion in bio power plants?

- Ans
- ☐ 1. Firedamp
 - ☒ 2. Sulphur dioxide
 - ☐ 3. Methane
 - ☐ 4. Hydrogen

Question ID : 630680278045
Option 1 ID : 6306801080540
Option 2 ID : 6306801080538
Option 3 ID : 6306801080537
Option 4 ID : 6306801080539
Status : Answered
Chosen Option : 3

Q.115 Which of the following approaches of estimation focusses on identifying cost for the materials, equipment and labour?

- Ans
- ☒ 1. Unit price estimate
 - ☐ 2. Assemblies estimate
 - ☐ 3. Square foot estimate
 - ☐ 4. Order of magnitude estimate

Question ID : 630680278018
Option 1 ID : 6306801080430
Option 2 ID : 6306801080432
Option 3 ID : 6306801080431
Option 4 ID : 6306801080429
Status : Not Answered
Chosen Option : --

Q.116 Which of the following is an example of the null deflection instrument?

- Ans ☒ 1. Ampere-hour meter
- ☒ 2. Potentiometer
- ☒ 3. Wattmeter
- ☒ 4. Energy meter

Question ID : 630680277986
Option 1 ID : 6306801080301
Option 2 ID : 6306801080302
Option 3 ID : 6306801080304
Option 4 ID : 6306801080303
Status : Answered
Chosen Option : 2

Q.117 Which of the following is a passive component?

- Ans ☒ 1. Resistor
- ☒ 2. Photodiodes
- ☒ 3. Current source
- ☒ 4. Voltage source

Question ID : 630680278028
Option 1 ID : 6306801080472
Option 2 ID : 6306801080471
Option 3 ID : 6306801080469
Option 4 ID : 6306801080470
Status : Answered
Chosen Option : 1

Q.118 In which type of electric arc welding do the electrodes used must be of the same metal as workpiece to be welded?

- Ans ☒ 1. Metal arc welding
- ☒ 2. Inert gas metal arc welding
- ☒ 3. Submerged arc welding
- ☒ 4. Carbon arc welding

Question ID : 630680278076
Option 1 ID : 6306801080663
Option 2 ID : 6306801080662
Option 3 ID : 6306801080664
Option 4 ID : 6306801080661
Status : Answered
Chosen Option : 1

Q.119 What is the model which takes into account a uniform series of year end payments called?

- Ans ☒ 1. Single payment present worth model
- ☒ 2. Single payment compound amount model
- ☒ 3. Uniform series present worth model
- ☒ 4. Uniform series compound amount model

Question ID : 630680278021
Option 1 ID : 6306801080444
Option 2 ID : 6306801080441
Option 3 ID : 6306801080442
Option 4 ID : 6306801080443
Status : Not Answered
Chosen Option : --

Q.120 What is the condition in which grid is intentionally or accidentally disconnected from the distribution system but the distribution system continues to feed the local loads called?

- Ans
1. Random phenomena

2. Islanding

3. Deregulation

4. Arcing grounds

Question ID : 630680278042

Option 1 ID : 6306801080527

Option 2 ID : 6306801080526

Option 3 ID : 6306801080528

Option 4 ID : 6306801080525

Status : Answered

Chosen Option : 1

Q.121 In case of resistance heating method, what does the power developed in heating circuit depend on?

- Ans
1. The source of electric supply

2. The source of applied voltage

3. The frequency of the applied voltage

4. Magnitude of current through the circuit

Question ID : 630680278075

Option 1 ID : 6306801080657

Option 2 ID : 6306801080659

Option 3 ID : 6306801080660

Option 4 ID : 6306801080658

Status : Answered

Chosen Option : 4

Q.122 How is the efficiency of a short transmission line calculated?

- Ans
1. $\text{Power supplied} \times 100 / \text{Power delivered}$

2. $\cos \phi + IR$

3. $\sin \phi + IR$

4. $\text{Power delivered} \times 100 / \text{Power supplied}$

Question ID : 630680277972

Option 1 ID : 6306801080247

Option 2 ID : 6306801080246

Option 3 ID : 6306801080245

Option 4 ID : 6306801080248

Status : Answered

Chosen Option : 4

Q.123 How is the induced e.m.f. (e) represented if conductor A of length l moves at an angle θ with the directions of the lines of flux with a flux density B?

- Ans
1. $e = Blv \cos \theta$ volt

2. $e = Blv \sin \theta$ volt

3. $e = \sin \theta / Blv$ volt

4. $e = \cos \theta / Blv$ volt

Question ID : 630680278038

Option 1 ID : 6306801080509

Option 2 ID : 6306801080510

Option 3 ID : 6306801080511

Option 4 ID : 6306801080512

Status : Answered

Chosen Option : 2

Q.124 Which are the three standard colour codes used in a three phase phasor diagram?

- Ans ☒ 1. Red, Yellow and blue
- ☐ 2. Red, black and green
- ☐ 3. Red, blue and Black
- ☐ 4. Red, green and yellow

Question ID : 630680277994
Option 1 ID : 6306801080333
Option 2 ID : 6306801080335
Option 3 ID : 6306801080334
Option 4 ID : 6306801080336
Status : Answered
Chosen Option : 1

Q.125 Why are earthing systems provided in substations?

- Ans ☐ 1. To provide the short circuit current.
- ☒ 2. To provide a discharge path for lightning gaps.
- ☐ 3. To provide a high potential surface.
- ☐ 4. To provide stray voltage to the substation.

Question ID : 630680277976
Option 1 ID : 6306801080263
Option 2 ID : 6306801080261
Option 3 ID : 6306801080262
Option 4 ID : 6306801080264
Status : Answered
Chosen Option : 2

Q.126 How is the eddy current loss minimised in a transformer?

- Ans ☐ 1. By laminating the primary and secondary coils
- ☐ 2. By insulating the terminals of windings
- ☐ 3. By inducing an alternating flux
- ☒ 4. By laminating the core

Question ID : 630680277959
Option 1 ID : 6306801080195
Option 2 ID : 6306801080196
Option 3 ID : 6306801080194
Option 4 ID : 6306801080193
Status : Answered
Chosen Option : 4

Q.127 In brushless D.C. motors, where are the permanent magnets attached?

- Ans ☐ 1. To the internal shaft
- ☐ 2. To the stator
- ☐ 3. To the armature
- ☒ 4. To the rotor

Question ID : 630680277953
Option 1 ID : 6306801080172
Option 2 ID : 6306801080170
Option 3 ID : 6306801080171
Option 4 ID : 6306801080169
Status : Answered
Chosen Option : 2

Q.128 What is the inner surface of circular furnace in direct arc heating coated with?

- Ans
- ☐ 1. Insulating material
 - ☐ 2. Conducting material
 - ☐ 3. Intermetallic powder
 - ☒ 4. Refractory material

Question ID : 630680278072
Option 1 ID : 6306801080646
Option 2 ID : 6306801080647
Option 3 ID : 6306801080648
Option 4 ID : 6306801080645
Status : Answered
Chosen Option : 4

Q.129 What is the unit to measure flux density?

- Ans
- ☐ 1. Tesla²
 - ☐ 2. Weber
 - ☐ 3. Weber²
 - ☒ 4. Tesla

Question ID : 630680278009
Option 1 ID : 6306801080395
Option 2 ID : 6306801080394
Option 3 ID : 6306801080396
Option 4 ID : 6306801080393
Status : Answered
Chosen Option : 4

Q.130 What is the proposal an electrical estimating company submits in response to request for information regarding an upcoming electrical project called?

- Ans
- ☐ 1. Likelihood estimation proposal
 - ☐ 2. Point estimation
 - ☒ 3. Tender
 - ☐ 4. Statistic quotation

Question ID : 630680278017
Option 1 ID : 6306801080428
Option 2 ID : 6306801080426
Option 3 ID : 6306801080425
Option 4 ID : 6306801080427
Status : Answered
Chosen Option : 1

Q.131 How can solar energy be directly converted into electrical energy?

- Ans
- ☐ 1. MHD conversion process
 - ☐ 2. Hot combustion process
 - ☐ 3. Pulverising process
 - ☒ 4. Photovoltaic process

Question ID : 630680278049
Option 1 ID : 6306801080553
Option 2 ID : 6306801080555
Option 3 ID : 6306801080554
Option 4 ID : 6306801080556
Status : Answered
Chosen Option : 4

Q.132 Which of the following component converts heat energy into mechanical energy?

- Ans
- ☐ 1. Boiler
 - ☐ 2. Generator
 - ☒ 3. Turbine
 - ☐ 4. Transformer

Question ID : 630680278050
Option 1 ID : 6306801080560
Option 2 ID : 6306801080557
Option 3 ID : 6306801080559
Option 4 ID : 6306801080558
Status : Answered
Chosen Option : 3

Q.133 When is the mechanical power developed by a motor maximum?

- Ans
- ☐ 1. When there is maximum back e.m.f.
 - ☐ 2. When there is minimum back e.m.f.
 - ☒ 3. When the back e.m.f. is equal to half the applied voltage
 - ☐ 4. When the back e.m.f. is equal to the applied voltage

Question ID : 630680277957
Option 1 ID : 6306801080186
Option 2 ID : 6306801080188
Option 3 ID : 6306801080185
Option 4 ID : 6306801080187
Status : Answered
Chosen Option : 3

Q.134 Which of the following is also known as the mechanical characteristic of a D.C. motor?

- Ans
- ☒ 1. Speed and Torque
 - ☐ 2. Torque and armature resistance
 - ☐ 3. Torque and armature current
 - ☐ 4. Speed and armature current

Question ID : 630680277954
Option 1 ID : 6306801080174
Option 2 ID : 6306801080176
Option 3 ID : 6306801080173
Option 4 ID : 6306801080175
Status : Answered
Chosen Option : 1

Q.135 What is the purpose of transposition of overhead conductors?

- Ans
- ☐ 1. Increase the phase sequence current
 - ☐ 2. Increase the inductance of the line
 - ☒ 3. Balance the capacitance of line
 - ☐ 4. Increase the electromagnetically induced e.m.f.

Question ID : 630680277973
Option 1 ID : 6306801080251
Option 2 ID : 6306801080252
Option 3 ID : 6306801080249
Option 4 ID : 6306801080250
Status : Answered
Chosen Option : 3

Q.136 While applying superposition theorem, what is done while removing the voltage sources?

- Ans
- ☐ 1. They are replaced by an open circuit.
 - ☐ 2. Their internal resistances are also removed.
 - ☐ 3. They are replaced by a short circuit.
 - ☒ 4. They are replaced by a short circuit and their internal resistances are left behind.

Question ID : 630680277988
Option 1 ID : 6306801080309
Option 2 ID : 6306801080312
Option 3 ID : 6306801080311
Option 4 ID : 6306801080310
Status : Answered
Chosen Option : 3

Q.137 When is the generator said to have good regulation?

- Ans
- ☐ 1. When change in voltage between no load and full load is constant
 - ☐ 2. When change in voltage between no load and full load is huge
 - ☐ 3. When there is no change in voltage between no-load and full-load
 - ☒ 4. When change in voltage between no load and full load is small

Question ID : 630680278057
Option 1 ID : 6306801080588
Option 2 ID : 6306801080587
Option 3 ID : 6306801080585
Option 4 ID : 6306801080586
Status : Answered
Chosen Option : 3

Q.138 What is the type of generator that is used to generate a sinusoidal output whose frequency is automatically varied called?

- Ans
- ☐ 1. Function generator
 - ☒ 2. Sweep frequency generator
 - ☐ 3. RF signal generator
 - ☐ 4. Signal generator

Question ID : 630680277987
Option 1 ID : 6306801080305
Option 2 ID : 6306801080308
Option 3 ID : 6306801080307
Option 4 ID : 6306801080306
Status : Answered
Chosen Option : 2

Q.139 In electronic signalling, a complete wave cycle is how many radian of a phase?

- Ans
- ☒ 1. 2π
 - ☐ 2. $\pi/2$
 - ☐ 3. $1/2\pi$
 - ☐ 4. π

Question ID : 630680277999
Option 1 ID : 6306801080356
Option 2 ID : 6306801080353
Option 3 ID : 6306801080354
Option 4 ID : 6306801080355
Status : Answered
Chosen Option : 1

Q.140 How is the cost of labour calculated?

- Ans
- ☒ 1. Rate of labour per day / No. of days required to complete the work
 - ☐ 2. Rate of labour per day $\times$ No. of days required to complete the work
 - ☒ 3. Rate of labour per day $\times$ 100 / No. of days required to complete the work
 - ☒ 4. (Rate of labour per day $\times$ No. of days required to complete the work) / 100

Question ID : 630680278019
 Option 1 ID : 6306801080433
 Option 2 ID : 6306801080435
 Option 3 ID : 6306801080434
 Option 4 ID : 6306801080436
 Status : Answered
 Chosen Option : 4

