



पावर ग्रिड कॉर्पोरेशन ऑफ इंडिया लिमिटेड
(भारत सरकार का उद्यम)
POWER GRID CORPORATION OF INDIA LIMITED
(A Government of India Enterprise)

Participant ID	820110200054
Participant Name	KORUKONDA KIRAN
Test Center Name	iON Digital Zone iDZ Kovilambakkam
Test Date	07/02/2024
Test Time	4:30 PM - 6:30 PM
Subject	Junior Technician Trainee Electrician

Section : General English

Q.1 Select the appropriate article from the below options to complete the sentence. Mark "No article" if there is no requirement of article in the given sentence.

She has _____ French name but in fact she's English, not French.

Ans 1. a

2. No article

3. an

4. the

Question ID : 630680574338

Option 1 ID : 6306802246222

Option 2 ID : 6306802246221

Option 3 ID : 6306802246220

Option 4 ID : 6306802246223

Status : Answered

Chosen Option : 1

Q.2 Select the most appropriate SYNONYM of the word highlighted/ given in brackets in the below sentence.

It can be a long and (arduous) task and very often ends in failure.

Ans 1. smooth

2. challenging

3. undemanding

4. mindless

Question ID : 630680574344

Option 1 ID : 6306802246247

Option 2 ID : 6306802246246

Option 3 ID : 6306802246245

Option 4 ID : 6306802246244

Status : Answered

Chosen Option : 2

Q.3 Select the most appropriate preposition from the given option to fill in the blanks for the given sentence.

He had promised to be back _____ five o' clock.

- Ans
- 1. at
 - 2. on
 - 3. in
 - 4. by

Question ID : 630680574339
Option 1 ID : 6306802246226
Option 2 ID : 6306802246227
Option 3 ID : 6306802246225
Option 4 ID : 6306802246224
Status : Answered
Chosen Option : 4

Q.4 In the following question a statement has been given with highlighted text. You are required to replace the text with correct Idioms given in the options.

Ms. Paul used to be opposed to allowing dogs at school, but she's had (a change in her opinion about this).

- Ans
- 1. a change of heart
 - 2. all bark and no bite
 - 3. out of the blue
 - 4. add fuel to the fire

Question ID : 630680574341
Option 1 ID : 6306802246233
Option 2 ID : 6306802246234
Option 3 ID : 6306802246235
Option 4 ID : 6306802246232
Status : Answered
Chosen Option : 1

Q.5 Select the most appropriate SYNONYM of the word highlighted/ given in brackets in the below sentence.

A handwritten note will usually (suffice) for a heartfelt thank you.

- Ans
- 1. tease
 - 2. serve
 - 3. impair
 - 4. violate

Question ID : 630680574343
Option 1 ID : 6306802246241
Option 2 ID : 6306802246240
Option 3 ID : 6306802246243
Option 4 ID : 6306802246242
Status : Answered
Chosen Option : 2

Q.6 In the following question a statement has been given with highlighted text. You are required to replace the text with correct Idioms given in the options.
I have so many things to get done today! I need to (get the things organised) before I get started.

- Ans**
- 1. on the ball
 - 2. go the extra mile
 - 3. hold your horses
 - 4. get my ducks in a row

Question ID : 630680574342
Option 1 ID : 6306802246238
Option 2 ID : 6306802246236
Option 3 ID : 6306802246237
Option 4 ID : 6306802246239
Status : Answered
Chosen Option : 4

Q.7 Choose the most logical order of the sentences from among the four given choices to construct a coherent paragraph.
Language is a tool used by society to communicate since ancient times.

- (A) Therefore, schools such as the Full Boarding School, for example, provide an opportunity for students to learn five international languages, namely, French, German, Japanese, Chinese, and Arabic through international language learning.
- (B) Therefore, many benefits will be obtained by someone who masters other languages besides the mother tongue.
- (C) In facing this globalization era, the ability to master and communicate in various languages is an advantage to an individual.
- (D) Without the ability and proficiency in speaking in various languages, it is quite difficult for someone to communicate especially with individuals of different races.

- Ans**
- 1. ADCB
 - 2. CADB
 - 3. CBDA
 - 4. ABCD

Question ID : 630680574340
Option 1 ID : 6306802246230
Option 2 ID : 6306802246231
Option 3 ID : 6306802246229
Option 4 ID : 6306802246228
Status : Answered
Chosen Option : 2

Comprehension:

Refer the below passage and answer the Questions:

Smoking is an insidious habit that has many negative effects on a person's health. While some may see it as a way to relax or socialize, the harm it causes is far greater than any perceived benefits. It is concerning to see that many young people have taken up this habit, so it is important to understand the dangers of smoking and to urge smokers to quit. Cigarette smoke contains a plethora of toxic substances, including carbon monoxide, nicotine, and carcinogens, which can lead to long-term health issues. Carbon monoxide, for instance, impairs the body's capacity to carry oxygen, which causes fatigue and breathlessness even with minor physical exertion. Additionally, the lack of oxygen in the body accelerates the aging process, which can result in premature wrinkles. It's also important to note that smoking isn't just harmful to the smoker, but also to those around them who inhale the smoke. This is known as secondary smoke, which can lead to similar health problems for non-smokers, such as lung cancer, heart disease, and stroke. This is why it's important for smokers to be considerate of those around them and to quit smoking altogether. Given the numerous hazards associated with smoking, it is crucial that we promote smoking cessation programs to help smokers quit this habit. These programs can provide assistance and resources to smokers who want to quit, such as counseling, nicotine replacement therapy, and medication. They can also educate smokers on the long-term effects of smoking and encourage them to make healthier choices.

In conclusion, the dangers of smoking are clear and should not be taken lightly. As a community, we must work together to encourage smokers to quit and promote a healthier lifestyle. Whether through smoking cessation programs or support from family and friends, it is possible for smokers to overcome this habit and improve their health in the long run.

SubQuestion No : 8

Q.8 Identify the suitable title for the passage.

- Ans 1. Smoking- best way to socialize
2. Promoting smoking cessation programs
3. The advantages of smoking
4. The Hazards of Smoking: A Call to Quit

Question ID : 630680574346

Option 1 ID : 6306802246249

Option 2 ID : 6306802246250

Option 3 ID : 6306802246251

Option 4 ID : 6306802246248

Status : Answered

Chosen Option : 1

Comprehension:

Refer the below passage and answer the Questions:

Smoking is an insidious habit that has many negative effects on a person's health. While some may see it as a way to relax or socialize, the harm it causes is far greater than any perceived benefits. It is concerning to see that many young people have taken up this habit, so it is important to understand the dangers of smoking and to urge smokers to quit. Cigarette smoke contains a plethora of toxic substances, including carbon monoxide, nicotine, and carcinogens, which can lead to long-term health issues. Carbon monoxide, for instance, impairs the body's capacity to carry oxygen, which causes fatigue and breathlessness even with minor physical exertion. Additionally, the lack of oxygen in the body accelerates the aging process, which can result in premature wrinkles. It's also important to note that smoking isn't just harmful to the smoker, but also to those around them who inhale the smoke. This is known as secondary smoke, which can lead to similar health problems for non-smokers, such as lung cancer, heart disease, and stroke. This is why it's important for smokers to be considerate of those around them and to quit smoking altogether. Given the numerous hazards associated with smoking, it is crucial that we promote smoking cessation programs to help smokers quit this habit. These programs can provide assistance and resources to smokers who want to quit, such as counseling, nicotine replacement therapy, and medication. They can also educate smokers on the long-term effects of smoking and encourage them to make healthier choices.

In conclusion, the dangers of smoking are clear and should not be taken lightly. As a community, we must work together to encourage smokers to quit and promote a healthier lifestyle. Whether through smoking cessation programs or support from family and friends, it is possible for smokers to overcome this habit and improve their health in the long run.

SubQuestion No : 9

Q.9 Select the most appropriate SYNONYM of the given word below.

Insidious

- Ans
- 1. Open
 - 2. Straight
 - 3. Frank
 - 4. False

Question ID : 630680574347

Option 1 ID : 6306802246253

Option 2 ID : 6306802246254

Option 3 ID : 6306802246255

Option 4 ID : 6306802246252

Status : Answered

Chosen Option : 2

Comprehension:

Refer the below passage and answer the Questions:

Smoking is an insidious habit that has many negative effects on a person's health. While some may see it as a way to relax or socialize, the harm it causes is far greater than any perceived benefits. It is concerning to see that many young people have taken up this habit, so it is important to understand the dangers of smoking and to urge smokers to quit. Cigarette smoke contains a plethora of toxic substances, including carbon monoxide, nicotine, and carcinogens, which can lead to long-term health issues. Carbon monoxide, for instance, impairs the body's capacity to carry oxygen, which causes fatigue and breathlessness even with minor physical exertion. Additionally, the lack of oxygen in the body accelerates the aging process, which can result in premature wrinkles. It's also important to note that smoking isn't just harmful to the smoker, but also to those around them who inhale the smoke. This is known as secondary smoke, which can lead to similar health problems for non-smokers, such as lung cancer, heart disease, and stroke. This is why it's important for smokers to be considerate of those around them and to quit smoking altogether. Given the numerous hazards associated with smoking, it is crucial that we promote smoking cessation programs to help smokers quit this habit. These programs can provide assistance and resources to smokers who want to quit, such as counseling, nicotine replacement therapy, and medication. They can also educate smokers on the long-term effects of smoking and encourage them to make healthier choices.

In conclusion, the dangers of smoking are clear and should not be taken lightly. As a community, we must work together to encourage smokers to quit and promote a healthier lifestyle. Whether through smoking cessation programs or support from family and friends, it is possible for smokers to overcome this habit and improve their health in the long run.

SubQuestion No : 10

Q.10 Select the most appropriate SYNONYM of the given word below.

Plethora

- Ans 1. Paucity
 2. Plenty
 3. Deficiency
 4. Scarcity

Question ID : 630680574348

Option 1 ID : 6306802246257

Option 2 ID : 6306802246258

Option 3 ID : 6306802246259

Option 4 ID : 6306802246256

Status : Answered

Chosen Option : 2

Section : Reasoning

Q.1 What will come in the place of question mark (?) to make the series given below logically complete?

V 37, X 41, Z 43, B 47, D 53, ?

- Ans 1. H 59
 2. G 59
 3. I 59
 4. F 59

Question ID : 630680574362

Option 1 ID : 6306802246314

Option 2 ID : 6306802246313

Option 3 ID : 6306802246315

Option 4 ID : 6306802246312

Status : Answered

Chosen Option : 4

Q.2 Read the given statement(s) and conclusions carefully. Assuming that the information given in the statements is true, even if it appears to be at variance with commonly known facts, decide which of the given conclusions logically follow(s) from the statement(s).

Statements:

Some doves are flowers.

Some flowers are rose.

Conclusions:

I. Some doves are rose.

II. Some flowers are doves.

- Ans**
- 1. Both conclusions I and II follows
 - 2. Neither conclusions I nor II follows
 - 3. Only conclusion I follow
 - 4. Only conclusion II follow

Question ID : 630680574358

Option 1 ID : 6306802246299

Option 2 ID : 6306802246298

Option 3 ID : 6306802246296

Option 4 ID : 6306802246297

Status : Not Answered

Chosen Option : --

Q.3 If 'M' denotes ' \times ', 'D' denotes '+', 'A' denotes ' \div ', 'S' denotes ' $-$ '. Then what will be the value of the following expression?

7 S 55 D 11 A 13 M 5

- Ans**
- 1. 66
 - 2. 67
 - 3. 68
 - 4. 65

Question ID : 630680574365

Option 1 ID : 6306802246325

Option 2 ID : 6306802246326

Option 3 ID : 6306802246327

Option 4 ID : 6306802246324

Status : Answered

Chosen Option : 4

Q.4 How many such letters are there in the given series each of which is preceded by symbol?

L 9 F # 8 J S Z 7 A # F 4 @ 9 A S 8 D ! 4 M

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

Question ID : 630680574352

Option 1 ID : 6306802246273

Option 2 ID : 6306802246275

Option 3 ID : 6306802246274

Option 4 ID : 6306802246272

Status : Answered

Chosen Option : 1

Q.5 In a row, a person's position is 14th from the left and 28th from the right. How many more persons should be added to make it 46?

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

Question ID : 630680574350

Option 1 ID : 6306802246266

Option 2 ID : 6306802246264

Option 3 ID : 6306802246265

Option 4 ID : 6306802246267

Status : Answered

Chosen Option : 2

Q.6 If $U > V > W > X > Y > Z$, then which among the following option is correct?

- Ans
- 1. $X > W$
 - 2. $Y > Z$
 - 3. $Z > Y$
 - 4. $V > U$

Question ID : 630680574359

Option 1 ID : 6306802246301

Option 2 ID : 6306802246303

Option 3 ID : 6306802246300

Option 4 ID : 6306802246302

Status : Not Answered

Chosen Option : --

Q.7 If all the symbols are removed from the series given below, which will be the eighth element from the right?

L9F#8JSZ7A#F4@9AS8D!4M

- Ans
- 1. 9
 - 2. 4
 - 3. A
 - 4. F

Question ID : 630680574354
Option 1 ID : 6306802246283
Option 2 ID : 6306802246282
Option 3 ID : 6306802246280
Option 4 ID : 6306802246281
Status : Answered
Chosen Option : 2

Q.8 What will come in the place of question mark (?) to make the series given below logically complete?

C 37, H 41, M 49, R 65, W 97, ?

- Ans
- 1. B 161
 - 2. C 161
 - 3. D 161
 - 4. A 161

Question ID : 630680574363
Option 1 ID : 6306802246317
Option 2 ID : 6306802246318
Option 3 ID : 6306802246319
Option 4 ID : 6306802246316
Status : Answered
Chosen Option : 4

Q.9 In a certain code language, SAND is written as 38 and BOAT is written as 38. How COPE will be written in the same code language?

- Ans
- 1. 41
 - 2. 42
 - 3. 40
 - 4. 39

Question ID : 630680574355
Option 1 ID : 6306802246286
Option 2 ID : 6306802246287
Option 3 ID : 6306802246285
Option 4 ID : 6306802246284
Status : Answered
Chosen Option : 4

Q.10 Study the following table and answer the questions based on it. Expenditures of a Community hall (in Lakh Rupees) per Annum Over the given Years.

Year	Item of Expenditure				
	Salary	Fuel and Transport	Bonus	Interest on Loans	Taxes
2008	268	96	300	15.4	55
2009	342	112	252	22.5	208
2010	324	104	384	21.8	84
2011	306	136	360	20.4	58
2022	420	142	396	25.4	75

What is the average amount of interest that the community building has to pay every year during this period?

- Ans 1. 22.6
 2. 31.15
 3. 25.8
 4. 27.12

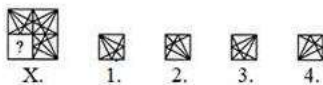
Question ID : 630680574368
Option 1 ID : 6306802246338
Option 2 ID : 6306802246339
Option 3 ID : 6306802246337
Option 4 ID : 6306802246336
Status : Not Answered
Chosen Option : --

Q.11 In a certain code language, BAI is written as TAB and BALL is written as LLAB. How ELBOW will be written in the same code language?

- Ans 1. WBELO
 2. WOLBE
 3. WOBLE
 4. WELOB

Question ID : 630680574356
Option 1 ID : 6306802246291
Option 2 ID : 6306802246289
Option 3 ID : 6306802246290
Option 4 ID : 6306802246288
Status : Answered
Chosen Option : 3

Q.12 Which of the following options will replace the question mark in the figure given below?



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

Question ID : 630680574364
Option 1 ID : 6306802246322
Option 2 ID : 6306802246321
Option 3 ID : 6306802246320
Option 4 ID : 6306802246323
Status : Answered
Chosen Option : 4

Q.13 5 persons namely Anish, Deepu, Rinki, Kashish and Pari are sitting in a straight line facing north. Anish is sitting on the extreme left side. Deepu is sitting immediately after Anish. Kashish is sitting exactly between Deepu and Pari. If Pari is sitting immediately before Rinki, then who is sitting in the middle of the line?

- Ans
- 1. Pari
 - 2. Kashish
 - 3. Anish
 - 4. Deepu

Question ID : 630680574349
Option 1 ID : 6306802246263
Option 2 ID : 6306802246262
Option 3 ID : 6306802246260
Option 4 ID : 6306802246261
Status : Not Answered
Chosen Option : --

Q.14 How is the husband of Shivam's grandmother's only daughter related to Shivam?

- Ans
- 1. Nephew
 - 2. Brother
 - 3. Grandson
 - 4. Father

Question ID : 630680574357
Option 1 ID : 6306802246294
Option 2 ID : 6306802246292
Option 3 ID : 6306802246293
Option 4 ID : 6306802246295
Status : Not Answered
Chosen Option : --

Q.15 Which of the following options will replace the question mark on the basis of sports person and sports?

Leander Paes : Tennis :: Shubhman Gill:?

- Ans
- 1. Badminton
 - 2. Tennis
 - 3. Hockey
 - 4. Cricket

Question ID : 630680574360
Option 1 ID : 6306802246304
Option 2 ID : 6306802246307
Option 3 ID : 6306802246306
Option 4 ID : 6306802246305
Status : Answered
Chosen Option : 4

Q.16 Which of the following options is different from the other three options?

- Ans
- 1. cloves
 - 2. Cardamom
 - 3. Nutmeg
 - 4. Mango

Question ID : 630680574361
Option 1 ID : 6306802246310
Option 2 ID : 6306802246309
Option 3 ID : 6306802246308
Option 4 ID : 6306802246311
Status : Answered
Chosen Option : 4

Q.17 How many such symbols are there in the given series each of which is followed by a number?

L 9 F # 8 J \$ Z 7 A # F 4 @ 9 A S 8 D ! 4 M

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

Question ID : 630680574353
Option 1 ID : 6306802246278
Option 2 ID : 6306802246277
Option 3 ID : 6306802246279
Option 4 ID : 6306802246276
Status : Answered
Chosen Option : 3

Q.18 If 'S' means '+', '*' means '+', '@' means '+', '#' means '*', then what will be the value of the following expression?

14 # 6 * 35 @ 7 S 6 = ?

- Ans
- 1. 78
 - 2. 82
 - 3. 83
 - 4. 80

Question ID : 630680574366
Option 1 ID : 6306802246328
Option 2 ID : 6306802246330
Option 3 ID : 6306802246331
Option 4 ID : 6306802246329
Status : Answered
Chosen Option : 1

Q.19 In a class of boys, Akash's rank is 39th from both sides. How many boys are there in total in the class?

- Ans 1. 77
 2. 74
 3. 75
 4. 76

Question ID : 630680574351
Option 1 ID : 6306802246271
Option 2 ID : 6306802246268
Option 3 ID : 6306802246269
Option 4 ID : 6306802246270
Status : Answered
Chosen Option : 1

Q.20 What will come in place of the question mark (?) to make the series given below logically complete?
54, 62, 55, 63, 56, ?, ?

- Ans 1. 57, 64
 2. 65, 58
 3. 64, 57
 4. 58, 65

Question ID : 630680574367
Option 1 ID : 6306802246333
Option 2 ID : 6306802246334
Option 3 ID : 6306802246332
Option 4 ID : 6306802246335
Status : Answered
Chosen Option : 3

Section : Quantitative Aptitude and General Awareness

Q.1 Pipes A and B can fill a tank in 18 and 22 hours respectively. Pipe C can empty it in 40 hours. If all the three pipes are opened together, then the tank will be filled in:

- Ans 1. 13.16 hrs.
 2. 16.5 hrs.
 3. 18.5 hrs.
 4. 14.67 hrs.

Question ID : 630680574375
Option 1 ID : 6306802246364
Option 2 ID : 6306802246366
Option 3 ID : 6306802246367
Option 4 ID : 6306802246365
Status : Not Answered
Chosen Option : --

Q.2 Khelo India Winter Games 2023 was held in which of the following cities?

- Ans 1. Shimla
 2. Dehradun
 3. Nainital
 4. Gulmarg

Question ID : 630680574379
Option 1 ID : 6306802246380
Option 2 ID : 6306802246382
Option 3 ID : 6306802246381
Option 4 ID : 6306802246383
Status : Not Answered
Chosen Option : --

Q.3 DAY-NULM scheme was launched in which of the following years?

- Ans 1. 2011
 2. 2013
 3. 2015
 4. 2010

Question ID : 630680574386
Option 1 ID : 6306802246408
Option 2 ID : 6306802246409
Option 3 ID : 6306802246411
Option 4 ID : 6306802246410
Status : Not Answered
Chosen Option : --

Q.4 Who among the following became the first woman officer of the Indian Navy to command Indian Naval Warship, the Indian Navy's Western Fleet?

- Ans 1. Shaliza Dhami
 2. Perna Deosthalee
 3. Apurva Gite
 4. Pooja Panda

Question ID : 630680574382
Option 1 ID : 6306802246392
Option 2 ID : 6306802246394
Option 3 ID : 6306802246393
Option 4 ID : 6306802246395
Status : Not Answered
Chosen Option : --

Q.5 Two trucks start at the same time, one from P to Q and the other from Q to P. If both trucks reach after 121 hours and 81 hours at Q and P respectively after they cross each other, what would be the ratio of speeds of the truck starting from P and that of the one starting from point Q?

- Ans**
- 1. 121:81
 - 2. 11:9
 - 3. 2:3
 - 4. 13:11

Question ID : 630680574377
Option 1 ID : 6306802246375
Option 2 ID : 6306802246373
Option 3 ID : 6306802246372
Option 4 ID : 6306802246374
Status : Answered
Chosen Option : 4

Q.6 The ratio of numbers of girls and boys participating in sports of a school is 9:11. If the number of girls is 225, determine the number of boys participating in the sports.

- Ans**
- 1. 270
 - 2. 275
 - 3. 265
 - 4. 280

Question ID : 630680574373
Option 1 ID : 6306802246358
Option 2 ID : 6306802246357
Option 3 ID : 6306802246359
Option 4 ID : 6306802246356
Status : Answered
Chosen Option : 2

Q.7 If a man were to sell his table for ₹ 342, he would lose 40%. To gain 40% he should sell it for:

- Ans**
- 1. ₹ 688
 - 2. ₹ 657
 - 3. ₹ 798
 - 4. ₹ 724

Question ID : 630680574371
Option 1 ID : 6306802246349
Option 2 ID : 6306802246348
Option 3 ID : 6306802246351
Option 4 ID : 6306802246350
Status : Answered
Chosen Option : 3

Q.8 Which of the following countries hosted the ICC One Day Cricket World Cup (Men) in the year 2023?

- Ans
- 1. New Zealand
 - 2. South Africa
 - 3. India
 - 4. Australia

Question ID : 630680574380
Option 1 ID : 6306802246385
Option 2 ID : 6306802246386
Option 3 ID : 6306802246384
Option 4 ID : 6306802246387
Status : Answered
Chosen Option : 3

Q.9 A man travelled a certain distance by train at the rate of 20 kmph. and walked back at the rate of 5 kmph. If the whole journey took 6 hours 30 minutes, the distance was.

- Ans
- 1. 28 km.
 - 2. 20 km.
 - 3. 26 km.
 - 4. 24 km.

Question ID : 630680574376
Option 1 ID : 6306802246371
Option 2 ID : 6306802246368
Option 3 ID : 6306802246370
Option 4 ID : 6306802246369
Status : Answered
Chosen Option : 3

Q.10 If a number is selected at random from the first 50 natural numbers, what will be the probability that the selected number is a multiple of 2 and 7?

- Ans
- 1. $\frac{3}{50}$
 - 2. $\frac{4}{75}$
 - 3. $\frac{2}{25}$
 - 4. $\frac{4}{7}$

Question ID : 630680574378
Option 1 ID : 6306802246377
Option 2 ID : 6306802246378
Option 3 ID : 6306802246376
Option 4 ID : 6306802246379
Status : Not Answered
Chosen Option : --

Q.11 5 men can pack 8 boxes in 8 days by working for 8 hours a day. In how many days can 12 men pack 24 boxes if they work for 4 hours a day?

- Ans
- 1. 24 days
 - 2. 16 days
 - 3. 20 days
 - 4. 18 days

Question ID : 630680574374
Option 1 ID : 6306802246363
Option 2 ID : 6306802246360
Option 3 ID : 6306802246362
Option 4 ID : 6306802246361
Status : Answered
Chosen Option : 3

Q.12 What is 'VYOMITRA' developed by ISRO?

- Ans
- 1. India's first Moon mission
 - 2. India's first solar mission
 - 3. India's female robot to board with Gaganyaan mission
 - 4. India's first manned space station

Question ID : 630680574381
Option 1 ID : 6306802246388
Option 2 ID : 6306802246390
Option 3 ID : 6306802246389
Option 4 ID : 6306802246391
Status : Marked For Review
Chosen Option : 4

Q.13 PM-JANMAN Yojana is related to which of the following sectors?

- Ans
- 1. Tribal welfare
 - 2. Women welfare
 - 3. Old age people welfare
 - 4. Child welfare

Question ID : 630680574385
Option 1 ID : 6306802246405
Option 2 ID : 6306802246404
Option 3 ID : 6306802246407
Option 4 ID : 6306802246406
Status : Not Attempted and Marked For Review
Chosen Option : --

Q.14 Ayushman Bhava' program is related to which of the following ministries of the Government of India?

- Ans 1. Ministry of Finance
 2. Ministry of Health and Family Welfare
 3. Ministry of Power
 4. Ministry of Education

Question ID : 630680574384
Option 1 ID : 6306802246400
Option 2 ID : 6306802246402
Option 3 ID : 6306802246403
Option 4 ID : 6306802246401
Status : Answered
Chosen Option : 2

Q.15 Two numbers are respectively 18% and 26% more than a third number. The ratio of the two numbers is.

- Ans 1. 18:26
 2. 6:11
 3. 59:63
 4. 54:78

Question ID : 630680574372
Option 1 ID : 6306802246353
Option 2 ID : 6306802246352
Option 3 ID : 6306802246355
Option 4 ID : 6306802246354
Status : Not Attempted and Marked For Review
Chosen Option : --

Q.16 In an election between two candidates, one got 52% of the total valid votes, 15% of the votes were invalid. If the total number of votes was 10000, the number of valid votes that the other candidate got, was:

- Ans 1. 3760
 2. 4000
 3. 4080
 4. 3890

Question ID : 630680574370
Option 1 ID : 6306802246347
Option 2 ID : 6306802246345
Option 3 ID : 6306802246344
Option 4 ID : 6306802246346
Status : Answered
Chosen Option : 3

Q.17 Which among the following is NOT true about India Cooling Action Plan (ICAP), a vision document developed by the Ministry of Environment, Forest and Climate Change?

- Ans
- 1. To Reduce cooling energy requirements by 25% to 40% by 2037-38,
 - 2. To reduce cooling demand across sectors by 20% to 25% by 2037-38,
 - 3. To reduce refrigerant demand by 25% to 30% by 2037-38
 - 4. The ICAP plan was launched in 2021

Question ID : 630680574387

Option 1 ID : 6306802246414

Option 2 ID : 6306802246412

Option 3 ID : 6306802246413

Option 4 ID : 6306802246415

Status : **Not Attempted and Marked For Review**

Chosen Option : --

Q.18 Find the average of all numbers between 30 and 66 which are divisible by 4.

- Ans
- 1. 46
 - 2. 44
 - 3. 48
 - 4. 52

Question ID : 630680574369

Option 1 ID : 6306802246341

Option 2 ID : 6306802246340

Option 3 ID : 6306802246342

Option 4 ID : 6306802246343

Status : **Not Answered**

Chosen Option : --

Q.19 Central Pollution Control Board (CPCB) is a statutory organization which was formed under which of the following Acts?

- Ans
- 1. Water (Prevention and Control of Pollution) Act, 1973
 - 2. Water (Prevention and Control of Pollution) Act, 1974
 - 3. Air (Prevention and Control of Pollution) Act, 1973
 - 4. Air (Prevention and Control of Pollution) Act, 1974

Question ID : 630680574388

Option 1 ID : 6306802246417

Option 2 ID : 6306802246416

Option 3 ID : 6306802246419

Option 4 ID : 6306802246418

Status : **Not Attempted and Marked For Review**

Chosen Option : --

Q.20 NAMSATE scheme launched by the Ministry of Social Justice and Empowerment, Government of India is related to which of the following?

- Ans 1. Double the income of farmers of India
2. To eradicate unsafe sewer and septic-tank cleaning practices
3. Regular Afforestation program in cities of India
4. Overall improvement in health of Indians

Question ID : 630680574383
Option 1 ID : 6306802246398
Option 2 ID : 6306802246396
Option 3 ID : 6306802246397
Option 4 ID : 6306802246399
Status : Answered
Chosen Option : 4

Section : Professional Knowledge Test

Q.1 What is the effect of armature reaction on an alternator's performance?

- Ans 1. Increases power factor
2. Decreases rotor speed
3. Reduces terminal voltage
4. Enhances efficiency

Question ID : 630680574470
Option 1 ID : 6306802246746
Option 2 ID : 6306802246745
Option 3 ID : 6306802246744
Option 4 ID : 6306802246747
Status : Answered
Chosen Option : 3

Q.2 In a DC motor starter, what significant role does the series coil play?

- Ans 1. Regulate motor speed
2. Control reverse rotation
3. Minimize armature reaction
4. Provide high starting torque

Question ID : 630680574458
Option 1 ID : 6306802246698
Option 2 ID : 6306802246699
Option 3 ID : 6306802246697
Option 4 ID : 6306802246696
Status : Answered
Chosen Option : 4

Q.3 When testing a lead-acid battery, if the specific gravity readings vary widely among cells, what could be a possible issue?

- Ans
- 1. Overcharging
 - 2. Cell imbalance
 - 3. Sulfation
 - 4. Normal battery condition

Question ID : 630680574409
Option 1 ID : 6306802246503
Option 2 ID : 6306802246501
Option 3 ID : 6306802246502
Option 4 ID : 6306802246500
Status : Answered
Chosen Option : 2

Q.4 Which type of integrated circuit is commonly used for analog signal processing?

- Ans
- 1. Op-amp
 - 2. FPGA
 - 3. Microcontroller
 - 4. ADC

Question ID : 630680574494
Option 1 ID : 6306802246840
Option 2 ID : 6306802246843
Option 3 ID : 6306802246842
Option 4 ID : 6306802246841
Status : Answered
Chosen Option : 1

Q.5 In which situations is a phase sequence meter particularly beneficial?

- Ans
- 1. Single-phase circuits
 - 2. DC power distribution
 - 3. Uninterruptible power supply (UPS) systems
 - 4. Three-phase systems

Question ID : 630680574407
Option 1 ID : 6306802246493
Option 2 ID : 6306802246492
Option 3 ID : 6306802246495
Option 4 ID : 6306802246494
Status : Answered
Chosen Option : 4

Q.6 What is the role of the earth wire in a three-pin electrical plug?

- Ans
- 1. Acts as a neutral conductor
 - 2. Enhances signal transmission
 - 3. Offers protection against electric shock
 - 4. Provides power supply

Question ID : 630680574435
Option 1 ID : 6306802246604
Option 2 ID : 6306802246605
Option 3 ID : 6306802246606
Option 4 ID : 6306802246607
Status : Answered
Chosen Option : 3

Q.7 What is the primary function of relays in control cabinet wiring?

- Ans
- 1. To remotely control high-power devices
 - 2. To amplify electrical signals
 - 3. To control multiple circuits simultaneously
 - 4. To protect against overvoltage

Question ID : 630680574486
Option 1 ID : 6306802246809
Option 2 ID : 6306802246811
Option 3 ID : 6306802246808
Option 4 ID : 6306802246810
Status : Answered
Chosen Option : 3

Q.8 Which of the following is a primary application of Silicon Controlled Rectifiers (SCRs)?

- Ans
- 1. Audio amplification
 - 2. Digital signal processing
 - 3. Power control in AC circuits
 - 4. Optical communication

Question ID : 630680574499
Option 1 ID : 6306802246860
Option 2 ID : 6306802246863
Option 3 ID : 6306802246862
Option 4 ID : 6306802246861
Status : Answered
Chosen Option : 3

Q.9 In a capacitance bridge, what is the primary purpose of the null detector?

- Ans
- 1. To control capacitance values
 - 2. To indicate when the bridge is balanced
 - 3. To measure voltage
 - 4. To adjust resistance levels

Question ID : 630680574402
Option 1 ID : 6306802246473
Option 2 ID : 6306802246472
Option 3 ID : 6306802246475
Option 4 ID : 6306802246474
Status : Answered
Chosen Option : 2

Q.10 According to which law does the back electromotive force (EMF) in a DC motor relate to the armature current and rotational speed?

- Ans
- 1. Lenz's Law
 - 2. Ampère's Circuital Law
 - 3. Faraday's Law of Electromagnetic Induction
 - 4. Newton's Second Law

Question ID : 630680574456
Option 1 ID : 6306802246688
Option 2 ID : 6306802246690
Option 3 ID : 6306802246691
Option 4 ID : 6306802246689
Status : Answered
Chosen Option : 4

Q.11 What instrument is commonly used to perform a polarity test in wiring circuits?

- Ans
- 1. Ammeter
 - 2. Voltmeter
 - 3. Multimeter
 - 4. Oscilloscope

Question ID : 630680574419
Option 1 ID : 6306802246543
Option 2 ID : 6306802246541
Option 3 ID : 6306802246542
Option 4 ID : 6306802246540
Status : Answered
Chosen Option : 4

Q.12 Which component is commonly used to terminate and secure a stranded electrical wire to a terminal block in a control cabinet?

- Ans 1. Cable Sleeve
 2. Ferrule
 3. Grommet
 4. Cable Tie

Question ID : 630680574487
Option 1 ID : 6306802246815
Option 2 ID : 6306802246814
Option 3 ID : 6306802246812
Option 4 ID : 6306802246813
Status : Marked For Review
Chosen Option : 2

Q.13 Which of the following materials is often used as an insulator in electrical applications?

- Ans 1. Aluminum
 2. Copper
 3. Rubber
 4. Silver

Question ID : 630680574397
Option 1 ID : 6306802246454
Option 2 ID : 6306802246452
Option 3 ID : 6306802246453
Option 4 ID : 6306802246455
Status : Answered
Chosen Option : 3

Q.14 In moving iron instruments, what causes the iron vane to move in response to the current flow?

- Ans 1. Magnetic field
 2. Electric field
 3. Electrostatic force
 4. Piezoelectric effect

Question ID : 630680574428
Option 1 ID : 6306802246579
Option 2 ID : 6306802246578
Option 3 ID : 6306802246577
Option 4 ID : 6306802246576
Status : Answered
Chosen Option : 1

Q.15 When inspecting the rotor of an induction motor, if you find a squirrel cage construction, what type of induction motor does it indicate?

- Ans
- 1. Single-phase induction motor
 - 2. Synchronous motor
 - 3. DC motor
 - 4. Three-phase induction motor.

Question ID : 630680574464
Option 1 ID : 6306802246722
Option 2 ID : 6306802246721
Option 3 ID : 6306802246720
Option 4 ID : 6306802246723
Status : Answered
Chosen Option : 2

Q.16 What is the construction of a TRIAC, and how does it differ from a regular diode?

- Ans
- 1. TRIAC is a unidirectional device, while a diode is bidirectional
 - 2. TRIAC has four layers, while a diode has two layers.
 - 3. TRIAC has three layers, while a diode has two layers
 - 4. TRIAC has a cathode and anode, while a diode has only one terminal

Question ID : 630680574500
Option 1 ID : 6306802246864
Option 2 ID : 6306802246867
Option 3 ID : 6306802246866
Option 4 ID : 6306802246865
Status : Answered
Chosen Option : 2

Q.17 Which type of capacitor is known for its small size, high capacitance, and is commonly used in decoupling, sample and hold and in timing circuits?

- Ans
- 1. Ceramic capacitor
 - 2. Tantalum capacitor
 - 3. Variable capacitor
 - 4. Electrolytic capacitor

Question ID : 630680574403
Option 1 ID : 6306802246478
Option 2 ID : 6306802246476
Option 3 ID : 6306802246479
Option 4 ID : 6306802246477
Status : Answered
Chosen Option : 1

Q.18 What does the term "Lumen" measure in the context of illumination?

- Ans
- 1. Light duration
 - 2. Light distribution
 - 3. Light color
 - 4. Light intensity

Question ID : 630680574425
Option 1 ID : 6306802246567
Option 2 ID : 6306802246564
Option 3 ID : 6306802246566
Option 4 ID : 6306802246565
Status : Answered
Chosen Option : 4

Q.19 What is the specified maximum allowed deviation for the out-of-straightness in the longitudinal direction of a hacksaw blade per 100 mm length?

- Ans
- 1. 0.6 mm
 - 2. 0.2 mm
 - 3. 0.4 mm
 - 4. 1.0 mm

Question ID : 630680574395
Option 1 ID : 6306802246446
Option 2 ID : 6306802246444
Option 3 ID : 6306802246445
Option 4 ID : 6306802246447
Status : Answered
Chosen Option : 1

Q.20 How does the resistance in a short circuit compare to a normal circuit?

- Ans
- 1. Higher in a short circuit
 - 2. Variable in a short circuit
 - 3. Lower in a short circuit
 - 4. Equal to a normal circuit

Question ID : 630680574401
Option 1 ID : 6306802246468
Option 2 ID : 6306802246471
Option 3 ID : 6306802246469
Option 4 ID : 6306802246470
Status : Answered
Chosen Option : 3

Q.21 What is the recommended pitch range (P) for a hacksaw blade with a wavy set?

- Ans 1. P = 0.5
 2. P = 2.0
 3. P = 1.8
 4. P = 0.8

Question ID : 630680574392
Option 1 ID : 6306802246434
Option 2 ID : 6306802246432
Option 3 ID : 6306802246433
Option 4 ID : 6306802246435
Status : Answered
Chosen Option : 4

Q.22 Which instrument is suitable for measuring the output voltage of a UPS?

- Ans 1. Function generator
 2. Multimeter
 3. Logic analyzer
 4. Oscilloscope

Question ID : 630680574492
Option 1 ID : 6306802246832
Option 2 ID : 6306802246834
Option 3 ID : 6306802246833
Option 4 ID : 6306802246835
Status : Answered
Chosen Option : 4

Q.23 In a typical residential wiring system, what is the main circuit responsible for?

- Ans 1. Connecting to external power sources
 2. Powering individual appliances
 3. Distributing power throughout the entire house
 4. Controlling lighting fixtures only

Question ID : 630680574413
Option 1 ID : 6306802246516
Option 2 ID : 6306802246518
Option 3 ID : 6306802246517
Option 4 ID : 6306802246519
Status : Answered
Chosen Option : 3

Q.24 Why are soldered joints commonly used in electrical conductors?

- Ans 1. To decrease conductivity
 2. To increase resistance
 3. To introduce insulation
 4. To ensure mechanical strength

Question ID : 630680574398
Option 1 ID : 6306802246457
Option 2 ID : 6306802246458
Option 3 ID : 6306802246459
Option 4 ID : 6306802246456
Status : Answered
Chosen Option : 4

Q.25 In a grounded electrical system, what is the potential of the earth point?

- Ans 1. Varies based on atmospheric conditions
 2. Always zero volts
 3. Determined by the frequency of the electrical supply
 4. Equal to the phase voltage

Question ID : 630680574436
Option 1 ID : 6306802246609
Option 2 ID : 6306802246611
Option 3 ID : 6306802246608
Option 4 ID : 6306802246610
Status : Answered
Chosen Option : 2

Q.26 What does the Interfacial Tension (IFT) test measure in transformer oil?

- Ans 1. Oxidation stability
 2. Viscosity
 3. Water content
 4. Contamination level

Question ID : 630680574445
Option 1 ID : 6306802246644
Option 2 ID : 6306802246646
Option 3 ID : 6306802246647
Option 4 ID : 6306802246645
Status : Answered
Chosen Option : 4

Q.27 What is a key advantage of a polyphase power system over a single-phase system in electrical distribution?

- Ans
- 1. Higher voltage
 - 2. Improved power transmission efficiency
 - 3. Lower initial cost in terms of availability
 - 4. Simplicity

Question ID : 630680574405
Option 1 ID : 6306802246486
Option 2 ID : 6306802246485
Option 3 ID : 6306802246487
Option 4 ID : 6306802246484
Status : Answered
Chosen Option : 2

Q.28 What might be the most probable cause if the mixer produces a burning smell during operation?

- Ans
- 1. Defective power cord
 - 2. Motor overheating
 - 3. Overloaded power socket
 - 4. Damaged control panel

Question ID : 630680574439
Option 1 ID : 6306802246621
Option 2 ID : 6306802246622
Option 3 ID : 6306802246620
Option 4 ID : 6306802246623
Status : Answered
Chosen Option : 2

Q.29 When using a CO₂ extinguisher on an electrical fire, what precaution should be taken?

- Ans
- 1. Shake the extinguisher vigorously before use
 - 2. Apply water to cool down the fire
 - 3. Continue using the extinguisher after the fire appears extinguished
 - 4. Ensure proper ventilation

Question ID : 630680574393
Option 1 ID : 6306802246439
Option 2 ID : 6306802246438
Option 3 ID : 6306802246436
Option 4 ID : 6306802246437
Status : Answered
Chosen Option : 4

Q.30 How can glare be minimized in lighting design?

- Ans
- 1. Using reflective surfaces
 - 2. Ignoring luminaire placement
 - 3. Increasing light intensity
 - 4. Employing diffusers and shades

Question ID : 630680574427
Option 1 ID : 6306802246573
Option 2 ID : 6306802246572
Option 3 ID : 6306802246575
Option 4 ID : 6306802246574
Status : Answered
Chosen Option : 3

Q.31 What is the main purpose of load estimation in a wiring system?

- Ans
- 1. Identify the type of insulation used
 - 2. Determine the color of wires
 - 3. Calculate the total length of wires
 - 4. Assess the electrical demand on the system

Question ID : 630680574420
Option 1 ID : 6306802246546
Option 2 ID : 6306802246545
Option 3 ID : 6306802246544
Option 4 ID : 6306802246547
Status : Answered
Chosen Option : 4

Q.32 In digital electronics, which integrated circuit is commonly used for storing data and performing logic operations?

- Ans
- 1. ASIC
 - 2. FGPA
 - 3. Microcontroller
 - 4. ROM

Question ID : 630680574495
Option 1 ID : 6306802246847
Option 2 ID : 6306802246845
Option 3 ID : 6306802246846
Option 4 ID : 6306802246844
Status : Marked For Review
Chosen Option : 3

Q.33 What happens to the total voltage when identical cells are connected in series?

- Ans
- 1. It fluctuates
 - 2. It remains the same
 - 3. It increases
 - 4. It decreases

Question ID : 630680574410
Option 1 ID : 6306802246507
Option 2 ID : 6306802246506
Option 3 ID : 6306802246504
Option 4 ID : 6306802246505
Status : Answered
Chosen Option : 4

Q.34 What safety device is installed in a power circuit to protect against overcurrent and short circuits?

- Ans
- 1. Motion sensor
 - 2. Surge protector
 - 3. Circuit breaker
 - 4. Dimmer switch

Question ID : 630680574412
Option 1 ID : 6306802246513
Option 2 ID : 6306802246512
Option 3 ID : 6306802246515
Option 4 ID : 6306802246514
Status : Answered
Chosen Option : 3

Q.35 In which of the following applications is a TRIAC commonly used?

- Ans
- 1. Battery charging
 - 2. Audio amplification
 - 3. Light dimming
 - 4. DC motor control

Question ID : 630680574501
Option 1 ID : 6306802246871
Option 2 ID : 6306802246868
Option 3 ID : 6306802246869
Option 4 ID : 6306802246870
Status : Answered
Chosen Option : 3

Q.36 Why is it more important to inspect and tighten electrical connections during routine maintenance of a motor-generator set?

- Ans
- 1. To improve mechanical performance
 - 2. To enhance sound insulation
 - 3. To increase fuel efficiency
 - 4. To prevent electrical fires and malfunctions

Question ID : 630680574473
Option 1 ID : 6306802246756
Option 2 ID : 6306802246759
Option 3 ID : 6306802246758
Option 4 ID : 6306802246757
Status : Answered
Chosen Option : 1

Q.37 What is the primary consequence of armature reaction in a DC generator?

- Ans
- 1. Distortion of the magnetic field
 - 2. Commutation improvement
 - 3. Reduction in speed
 - 4. Increased voltage output

Question ID : 630680574454
Option 1 ID : 6306802246680
Option 2 ID : 6306802246681
Option 3 ID : 6306802246683
Option 4 ID : 6306802246682
Status : Answered
Chosen Option : 1

Q.38 How does an SCR operate in a circuit?

- Ans
- 1. By adjusting inductance
 - 2. By gate triggering
 - 3. By varying resistance
 - 4. By controlling capacitance

Question ID : 630680574498
Option 1 ID : 6306802246858
Option 2 ID : 6306802246856
Option 3 ID : 6306802246857
Option 4 ID : 6306802246859
Status : Answered
Chosen Option : 2

Q.39 In which of the following applications is a single-phase induction motor commonly used?

- Ans
- 1. Elevators
 - 2. Refrigerators
 - 3. Large industrial fans
 - 4. Conveyor belts

Question ID : 630680574466
Option 1 ID : 6306802246731
Option 2 ID : 6306802246728
Option 3 ID : 6306802246729
Option 4 ID : 6306802246730
Status : Answered
Chosen Option : 2

Q.40 Which of the following tools is commonly used to check a diode or transistor for proper functioning?

- Ans
- 1. Logic Analyzer
 - 2. Oscilloscope
 - 3. Function Generator
 - 4. Multimeter

Question ID : 630680574489
Option 1 ID : 6306802246823
Option 2 ID : 6306802246822
Option 3 ID : 6306802246820
Option 4 ID : 6306802246821
Status : Answered
Chosen Option : 4

Q.41 In the ONAF cooling type for transformers, what does "AF" represent?

- Ans
- 1. Air forced
 - 2. Atmospheric flow
 - 3. Active Fluid
 - 4. Ambient Fan

Question ID : 630680574450
Option 1 ID : 6306802246664
Option 2 ID : 6306802246667
Option 3 ID : 6306802246665
Option 4 ID : 6306802246666
Status : Answered
Chosen Option : 1

Q.42 What is the typical shape of the coils in a core-type transformer?

- Ans 1. Spiral
 2. Spherical
 3. Rectangular
 4. Cylindrical

Question ID : 630680574444
Option 1 ID : 6306802246641
Option 2 ID : 6306802246640
Option 3 ID : 6306802246642
Option 4 ID : 6306802246643
Status : Answered
Chosen Option : 4

Q.43 What happens to the speed of a DC generator with an increase in load?

- Ans 1. It is variable
 2. It increases
 3. It remains constant
 4. It decreases

Question ID : 630680574452
Option 1 ID : 6306802246673
Option 2 ID : 6306802246674
Option 3 ID : 6306802246672
Option 4 ID : 6306802246675
Status : Answered
Chosen Option : 4

Q.44 Why are laminated cores used in transformers and electric motors?

- Ans 1. Enhance mechanical strength
 2. Improve insulation
 3. Reduce eddy current losses
 4. Increase magnetic flux

Question ID : 630680574453
Option 1 ID : 6306802246678
Option 2 ID : 6306802246679
Option 3 ID : 6306802246677
Option 4 ID : 6306802246676
Status : Answered
Chosen Option : 3

Q.45 Why is it advisable to use a three-pin plug with a fridge in India?

- Ans 1. Energy efficiency
 2. Stability
 3. Grounding
 4. Aesthetics

Question ID : 630680574441
Option 1 ID : 6306802246628
Option 2 ID : 6306802246630
Option 3 ID : 6306802246629
Option 4 ID : 6306802246631
Status : Answered
Chosen Option : 3

Q.46 Why is an ELCB particularly important in wet areas like bathrooms and kitchens?

- Ans 1. Enhancing lighting conditions
 2. Avoiding corrosion of wires
 3. Preventing water wastage
 4. Minimizing the risk of electric shock

Question ID : 630680574415
Option 1 ID : 6306802246527
Option 2 ID : 6306802246525
Option 3 ID : 6306802246524
Option 4 ID : 6306802246526
Status : Answered
Chosen Option : 4

Q.47 What effect does an increase in the speed of an alternator have on its frequency?

- Ans 1. Remains unchanged
 2. Decreases
 3. Cannot be determined
 4. Increases

Question ID : 630680574477
Option 1 ID : 6306802246775
Option 2 ID : 6306802246772
Option 3 ID : 6306802246774
Option 4 ID : 6306802246773
Status : Not Answered
Chosen Option : --

Q.48 Why are Variable Frequency Drives (VFDs) commonly used in industrial applications?

- Ans 1. To improve communication connectivity in manufacturing plants
2. To control the speed of electric motors
3. To enhance the aesthetics of machinery
4. To regulate the temperature in industrial facilities

Question ID : 630680574482
Option 1 ID : 6306802246795
Option 2 ID : 6306802246792
Option 3 ID : 6306802246794
Option 4 ID : 6306802246793
Status : Answered
Chosen Option : 4

Q.49 A 4-pole alternator is running at a speed of 1800 revolutions per minute (rpm). What is the frequency of the generated output?

- Ans 1. 30 Hz
2. 60 Hz
3. 90 Hz
4. 120 Hz

Question ID : 630680574474
Option 1 ID : 6306802246763
Option 2 ID : 6306802246760
Option 3 ID : 6306802246761
Option 4 ID : 6306802246762
Status : Answered
Chosen Option : 2

Q.50 What is the purpose of an inverter in a solar power system?

- Ans 1. To store solar energy
2. To increase the efficiency of solar panels
3. To control the direction of sunlight
4. To convert DC electricity to AC electricity

Question ID : 630680574506
Option 1 ID : 6306802246891
Option 2 ID : 6306802246889
Option 3 ID : 6306802246890
Option 4 ID : 6306802246888
Status : Answered
Chosen Option : 4

Q.51 What does a CRO help visualize in a power supply waveform?

- Ans 1. Voltage levels
 2. Temperature
 3. Current levels
 4. Resistance

Question ID : 630680574493
Option 1 ID : 6306802246837
Option 2 ID : 6306802246839
Option 3 ID : 6306802246836
Option 4 ID : 6306802246838
Status : Answered
Chosen Option : 1

Q.52 What does "ODAF" signify in transformer cooling?

- Ans 1. Oil Direct Air Forced
 2. Oil Dynamic Air Flow
 3. Overhead Direct Air Fan
 4. Overheated Direct Air Fan

Question ID : 630680574448
Option 1 ID : 6306802246659
Option 2 ID : 6306802246657
Option 3 ID : 6306802246656
Option 4 ID : 6306802246658
Status : Answered
Chosen Option : 1

Q.53 What is the function of a commutator in changing the direction of rotation in a DC motor?

- Ans 1. Controls motor speed
 2. Reverses the current in the armature coil
 3. Reverses the direction of the magnetic field
 4. Supplies power to the armature

Question ID : 630680574459
Option 1 ID : 6306802246700
Option 2 ID : 6306802246702
Option 3 ID : 6306802246703
Option 4 ID : 6306802246701
Status : Not Answered
Chosen Option : --

Q.54 When using a megger to test insulation resistance, what reading is indicative of good insulation?

- Ans
- 1. Infinite resistance
 - 2. Low resistance
 - 3. Moderate resistance
 - 4. Fluctuating resistance

Question ID : 630680574400
Option 1 ID : 6306802246467
Option 2 ID : 6306802246464
Option 3 ID : 6306802246465
Option 4 ID : 6306802246466
Status : Answered
Chosen Option : 2

Q.55 Why is a capacitor preferably used in a single-phase induction motor?

- Ans
- 1. To improve power factor
 - 2. To increase the voltage supply
 - 3. To enhance starting torque
 - 4. To reduce motor speed

Question ID : 630680574467
Option 1 ID : 6306802246733
Option 2 ID : 6306802246735
Option 3 ID : 6306802246734
Option 4 ID : 6306802246732
Status : Answered
Chosen Option : 3

Q.56 If a power supply is providing unstable voltage, which instrument is most helpful for diagnosing the issue?

- Ans
- 1. Multimeter
 - 2. Oscilloscope
 - 3. Signal generator
 - 4. Power analyzer

Question ID : 630680574497
Option 1 ID : 6306802246855
Option 2 ID : 6306802246853
Option 3 ID : 6306802246852
Option 4 ID : 6306802246854
Status : Answered
Chosen Option : 2

Q.57 The relation between engine or alternator speed and frequency is given by

Ans

1. $f = \frac{PN}{120}$

2. $P = \frac{fN}{60}$

3. $P = \frac{fN}{120}$

4. $f = \frac{PN}{60}$

Question ID : 630680574471

Option 1 ID : 6306802246750

Option 2 ID : 6306802246751

Option 3 ID : 6306802246748

Option 4 ID : 6306802246749

Status : Answered

Chosen Option : 1

Q.58 Why do conductors exhibit high electrical conductivity?

Ans

1. Due to flexibility

2. Due to low resistance

3. Due to high resistance

4. Due to transparency

Question ID : 630680574396

Option 1 ID : 6306802246450

Option 2 ID : 6306802246451

Option 3 ID : 6306802246448

Option 4 ID : 6306802246449

Status : Answered

Chosen Option : 2

Q.59 In control cabinet wiring, which component is used to protect and insulate individual wires or cables from external factors such as abrasion and environmental conditions?

Ans

1. Thimble Cable Lug

2. Cable Sleeve

3. Grommet

4. Cable Clip

Question ID : 630680574485

Option 1 ID : 6306802246804

Option 2 ID : 6306802246805

Option 3 ID : 6306802246806

Option 4 ID : 6306802246807

Status : Answered

Chosen Option : 2

Q.60 Which of the following alternator types is commonly used in power plants and large industrial applications?

- Ans 1. Synchronous Alternator
 2. DC Alternator
 3. Brushless Alternator
 4. Induction Alternator

Question ID : 630680574468
Option 1 ID : 6306802246739
Option 2 ID : 6306802246736
Option 3 ID : 6306802246738
Option 4 ID : 6306802246737
Status : Answered
Chosen Option : 1

Q.61 What is the other name for a delta connection in a transformer?

- Ans 1. Closed-loop connection
 2. Zigzag connection
 3. Mesh connection
 4. T-connection

Question ID : 630680574446
Option 1 ID : 6306802246651
Option 2 ID : 6306802246650
Option 3 ID : 6306802246648
Option 4 ID : 6306802246649
Status : Answered
Chosen Option : 3

Q.62 Which of the following could be a common issue in a single-phase induction motor that leads to a failure to start?

- Ans 1. Overvoltage
 2. Rotor locked
 3. Phase balance
 4. Excessive lubrication

Question ID : 630680574465
Option 1 ID : 6306802246727
Option 2 ID : 6306802246725
Option 3 ID : 6306802246726
Option 4 ID : 6306802246724
Status : Answered
Chosen Option : 2

Q.63 What is the maximum demand in a domestic service connection?

- Ans
- 1. The maximum voltage supplied to the household
 - 2. The total energy consumed since the connection was established
 - 3. The highest electricity bill amount
 - 4. The highest power consumption within a specific period

Question ID : 630680574418
Option 1 ID : 6306802246538
Option 2 ID : 6306802246539
Option 3 ID : 6306802246537
Option 4 ID : 6306802246536
Status : Answered
Chosen Option : 4

Q.64 What is a common task in the routine maintenance of a DC generator commutator?

- Ans
- 1. Painting the surface
 - 2. Adding distilled water
 - 3. Lubricating with oil
 - 4. Sanding and cleaning

Question ID : 630680574455
Option 1 ID : 6306802246687
Option 2 ID : 6306802246684
Option 3 ID : 6306802246685
Option 4 ID : 6306802246686
Status : Answered
Chosen Option : 4

Q.65 In a shell-type transformer, where is the primary winding usually placed in relation to the secondary winding?

- Ans
- 1. Outside the core
 - 2. Both windings are interwoven
 - 3. Inside the core
 - 4. Adjacent to the core

Question ID : 630680574442
Option 1 ID : 6306802246633
Option 2 ID : 6306802246634
Option 3 ID : 6306802246632
Option 4 ID : 6306802246635
Status : Answered
Chosen Option : 3

Q.66 How is slip calculated in an induction motor?

- Ans
- 1. Slip is equal to the rotor speed divided by the synchronous speed.
 - 2. Slip is the ratio of stator current to rotor current.
 - 3. Slip is the difference between the synchronous speed and the rotor speed.
 - 4. Slip is the voltage drop across the stator winding.

Question ID : 630680574460
Option 1 ID : 6306802246706
Option 2 ID : 6306802246704
Option 3 ID : 6306802246707
Option 4 ID : 6306802246705
Status : Not Answered
Chosen Option : --

Q.67 In a three-phase system, what formula is used to calculate apparent power (S) when given the values of line voltage (V) and line current (I)?

- Ans
- 1. $S = V / I$
 - 2. $S = V * I$
 - 3. $S = V * I * \sqrt{3}$
 - 4. $S = V / I * \sqrt{3}$

Question ID : 630680574431
Option 1 ID : 6306802246589
Option 2 ID : 6306802246588
Option 3 ID : 6306802246590
Option 4 ID : 6306802246591
Status : Answered
Chosen Option : 1

Q.68 In a star (wye) connection of a transformer, how are the primary and secondary windings connected?

- Ans
- 1. Primary and secondary windings in parallel
 - 2. Primary windings in parallel, secondary windings in series
 - 3. Primary and secondary windings in series
 - 4. Primary windings in series, secondary windings in parallel

Question ID : 630680574447
Option 1 ID : 6306802246654
Option 2 ID : 6306802246652
Option 3 ID : 6306802246655
Option 4 ID : 6306802246653
Status : Answered
Chosen Option : 1

Q.69 Why is the Autotransformer starting to be used in some large induction motors?

- Ans 1. Constant Current
 2. Voltage Stability
 3. Energy Conservation
 4. Soft Starting

Question ID : 630680574462
Option 1 ID : 6306802246714
Option 2 ID : 6306802246715
Option 3 ID : 6306802246713
Option 4 ID : 6306802246712
Status : Not Answered
Chosen Option : --

Q.70 Which among the following fire extinguishers is most suitable for electrical fires?

- Ans 1. Wet Chemical Extinguisher
 2. CO₂ extinguisher
 3. Dry powder extinguisher
 4. Water extinguisher

Question ID : 630680574390
Option 1 ID : 6306802246425
Option 2 ID : 6306802246424
Option 3 ID : 6306802246427
Option 4 ID : 6306802246426
Status : Answered
Chosen Option : 2

Q.71 What is the primary purpose of regular lubrication in the maintenance of a motor-generator set?

- Ans 1. To cool down the motor-generator set
 2. To reduce friction and wear between moving parts
 3. To change the color of the equipment
 4. To increase electrical efficiency

Question ID : 630680574472
Option 1 ID : 6306802246754
Option 2 ID : 6306802246755
Option 3 ID : 6306802246753
Option 4 ID : 6306802246752
Status : Answered
Chosen Option : 2

Q.72 When testing a diode using a multimeter, what reading would you typically expect when the multimeter leads are connected in the forward bias direction?

- Ans
- 1. Low resistance
 - 2. No change in resistance
 - 3. High resistance
 - 4. Fluctuating resistance

Question ID : 630680574488
Option 1 ID : 6306802246819
Option 2 ID : 6306802246816
Option 3 ID : 6306802246818
Option 4 ID : 6306802246817
Status : Not Answered
Chosen Option : --

Q.73 Why is the length of the cable an important consideration in cable selection?

- Ans
- 1. Improved insulation
 - 2. Aesthetics
 - 3. Cost-effectiveness
 - 4. Voltage drop

Question ID : 630680574422
Option 1 ID : 6306802246554
Option 2 ID : 6306802246555
Option 3 ID : 6306802246553
Option 4 ID : 6306802246552
Status : Answered
Chosen Option : 4

Q.74 Which of the following materials is commonly used as a conductor in overhead transmission lines?

- Ans
- 1. Rubber
 - 2. Wood
 - 3. Copper
 - 4. Plastic

Question ID : 630680574480
Option 1 ID : 6306802246784
Option 2 ID : 6306802246785
Option 3 ID : 6306802246787
Option 4 ID : 6306802246786
Status : Answered
Chosen Option : 3

Q.75 What role does the pull-chain switch preferably play in a ceiling fan connection?

- Ans
- 1. Controlling fan lighting
 - 2. Adjusting fan speed
 - 3. Turning the fan on and off
 - 4. Reversing fan direction

Question ID : 630680574437
Option 1 ID : 6306802246614
Option 2 ID : 6306802246612
Option 3 ID : 6306802246613
Option 4 ID : 6306802246615
Status : Answered
Chosen Option : 3

Q.76 How can the functionality of a TRIAC (Triode for Alternating Current) be assessed using a CRO?

- Ans
- 1. Check for a bidirectional current flow.
 - 2. Ensure the TRIAC does not conduct in either direction.
 - 3. Confirm a constant voltage across the TRIAC.
 - 4. Observe a unidirectional current flow.

Question ID : 630680574491
Option 1 ID : 6306802246830
Option 2 ID : 6306802246831
Option 3 ID : 6306802246828
Option 4 ID : 6306802246829
Status : Not Answered
Chosen Option : --

Q.77 What is a key advantage of prepaid smart metering for utility services?

- Ans
- 1. Manual meter readings
 - 2. Higher electricity consumption
 - 3. Fixed monthly bills
 - 4. Real-time monitoring and control

Question ID : 630680574432
Option 1 ID : 6306802246592
Option 2 ID : 6306802246594
Option 3 ID : 6306802246593
Option 4 ID : 6306802246595
Status : Answered
Chosen Option : 4

Q.78 What is the primary purpose of using DIN rails in control cabinet wiring?

- Ans 1. To mount electrical components in a standardized manner
2. To act as a heat sink for sensitive electronic devices
3. To enhance the aesthetic appearance of the control cabinet
4. To provide structural support to the control cabinet

Question ID : 630680574483
Option 1 ID : 6306802246798
Option 2 ID : 6306802246796
Option 3 ID : 6306802246799
Option 4 ID : 6306802246797
Status : Answered
Chosen Option : 1

Q.79 What is the common method used for power factor improvement in a synchronous motor?

- Ans 1. Adding capacitors in parallel with the motor
2. Decreasing the excitation voltage
3. Reducing the load on the motor
4. With constant excitation voltage

Question ID : 630680574478
Option 1 ID : 6306802246776
Option 2 ID : 6306802246778
Option 3 ID : 6306802246779
Option 4 ID : 6306802246777
Status : Answered
Chosen Option : 1

Q.80 Why do squirrel cage induction motors typically have less maintenance compared to other motor types?

- Ans 1. Rotor Complexity
2. Dual slip Rings
3. Stator Winding Resistance
4. Brush Wear

Question ID : 630680574463
Option 1 ID : 6306802246717
Option 2 ID : 6306802246716
Option 3 ID : 6306802246719
Option 4 ID : 6306802246718
Status : Not Answered
Chosen Option : --

Q.81 What is the principle behind the operation of a solar panel?

- Ans
- 1. Nuclear Fusion
 - 2. Greenhouse Gas Emission
 - 3. Wind Turbine Rotation
 - 4. Photovoltaic Effect

Question ID : 630680574508
Option 1 ID : 6306802246897
Option 2 ID : 6306802246898
Option 3 ID : 6306802246896
Option 4 ID : 6306802246899
Status : Answered
Chosen Option : 4

Q.82 Which of the following statements is true regarding the construction of a DIAC?

- Ans
- 1. The DIAC has a symmetrical structure with four layers.
 - 2. A DIAC has three semiconductor layers.
 - 3. The breakdown voltage of a DIAC is constant and does not vary with temperature.
 - 4. A DIAC is a unidirectional semiconductor device.

Question ID : 630680574502
Option 1 ID : 6306802246872
Option 2 ID : 6306802246874
Option 3 ID : 6306802246875
Option 4 ID : 6306802246873
Status : Answered
Chosen Option : 1

Q.83 What is the primary function of a "twisted pair" in communication wiring?

- Ans
- 1. Enhance current flow
 - 2. Improve insulation
 - 3. Reduce signal interference
 - 4. Increase voltage

Question ID : 630680574416
Option 1 ID : 6306802246530
Option 2 ID : 6306802246529
Option 3 ID : 6306802246531
Option 4 ID : 6306802246528
Status : Answered
Chosen Option : 1

Q.84 What is the primary significance of a dedicated circuit in a wiring system?

- Ans 1. Enhanced safety
 2. Aesthetic appeal
 3. Cost reduction
 4. Increased energy efficiency

Question ID : 630680574421
Option 1 ID : 6306802246549
Option 2 ID : 6306802246551
Option 3 ID : 6306802246550
Option 4 ID : 6306802246548
Status : Answered
Chosen Option : 1

Q.85 What is a primary application specialty of button cells (coin cells)?

- Ans 1. Providing backup power in computers
 2. Powering household appliances
 3. Running high-performance laptops
 4. Energizing wristwatches and small electronic devices

Question ID : 630680574408
Option 1 ID : 6306802246498
Option 2 ID : 6306802246496
Option 3 ID : 6306802246497
Option 4 ID : 6306802246499
Status : Answered
Chosen Option : 4

Q.86 What is the primary function of a voltage regulator integrated circuit in electronic circuits?

- Ans 1. Signal amplification
 2. Logic operations
 3. Digital-to-analog conversion
 4. Voltage stabilization

Question ID : 630680574496
Option 1 ID : 6306802246850
Option 2 ID : 6306802246849
Option 3 ID : 6306802246848
Option 4 ID : 6306802246851
Status : Not Answered
Chosen Option : --

Q.87 How does the load factor affect the sizing of equipment in a domestic service connection?

- Ans
- 1. Higher load factor requires smaller equipment
 - 2. Load factor determines the number of circuits
 - 3. Load factor has no impact on equipment size
 - 4. Higher load factor requires larger equipment

Question ID : 630680574417
Option 1 ID : 6306802246532
Option 2 ID : 6306802246535
Option 3 ID : 6306802246534
Option 4 ID : 6306802246533
Status : Answered
Chosen Option : 4

Q.88 In the construction of an IGBT, what significant role does the "Gate Oxide Layer" play?

- Ans
- 1. It enhances the switching speed of the IGBT
 - 2. It determines the conductivity of the P-type layer
 - 3. It prevents the formation of the N- drift region
 - 4. It provides electrical isolation between the gate and collector

Question ID : 630680574504
Option 1 ID : 6306802246880
Option 2 ID : 6306802246881
Option 3 ID : 6306802246882
Option 4 ID : 6306802246883
Status : Answered
Chosen Option : 4

Q.89 What significant role does the field winding play in a DC generator?

- Ans
- 1. Generating electrical power
 - 2. Producing the main magnetic field
 - 3. Regulating the voltage output
 - 4. Converting mechanical energy to electrical energy

Question ID : 630680574449
Option 1 ID : 6306802246662
Option 2 ID : 6306802246661
Option 3 ID : 6306802246660
Option 4 ID : 6306802246663
Status : Answered
Chosen Option : 2

Q.90 What is the maximum allowable length of flexible conduit, as per IE rules, for connections between terminal boxes of motors and starters, switches, and motors?

- Ans 1. 1.00 meters
 2. 2.00 meters
 3. 1.25 meters
 4. 1.50 meters

Question ID : 630680574414
Option 1 ID : 6306802246523
Option 2 ID : 6306802246522
Option 3 ID : 6306802246520
Option 4 ID : 6306802246521
Status : Answered
Chosen Option : 3

Q.91 What is the main purpose of grounding electrical equipment?

- Ans 1. Reducing equipment weight
 2. Enhancing equipment appearance
 3. Improving electrical conductivity
 4. Providing a path for fault currents

Question ID : 630680574434
Option 1 ID : 6306802246601
Option 2 ID : 6306802246602
Option 3 ID : 6306802246603
Option 4 ID : 6306802246600
Status : Answered
Chosen Option : 4

Q.92 What is the purpose of giving rescue breaths in first aid?

- Ans 1. To relieve pain
 2. To provide oxygen to the lungs
 3. To restart the hearing sensor
 4. To check for responsiveness

Question ID : 630680574394
Option 1 ID : 6306802246443
Option 2 ID : 6306802246440
Option 3 ID : 6306802246442
Option 4 ID : 6306802246441
Status : Answered
Chosen Option : 2

Q.93 What advantage does a DC generator offer in welding compared to other power sources?

- Ans 1. Direct current for better arc stability
2. Complexity in operation for novice welders
3. Higher voltage for increased safety
4. Compatibility with all welding techniques

Question ID : 630680574451
Option 1 ID : 6306802246670
Option 2 ID : 6306802246668
Option 3 ID : 6306802246671
Option 4 ID : 6306802246669
Status : Answered
Chosen Option : 1

Q.94 Which wire color is typically used for the live or phase wire during the installation of a ceiling fan in India?

- Ans 1. White
2. Green
3. Red
4. Black

Question ID : 630680574438
Option 1 ID : 6306802246619
Option 2 ID : 6306802246618
Option 3 ID : 6306802246616
Option 4 ID : 6306802246617
Status : Answered
Chosen Option : 3

Q.95 In a star (wye) connection, what is the primary role of the neutral conductor?

- Ans 1. It provides a return path for unbalanced currents.
2. It connects the load to the power source.
3. It increases the voltage across phases.
4. It carries the phase current.

Question ID : 630680574406
Option 1 ID : 6306802246488
Option 2 ID : 6306802246489
Option 3 ID : 6306802246490
Option 4 ID : 6306802246491
Status : Answered
Chosen Option : 1

Q.96 In lighting design, what does "Lux" represent?

- Ans
- 1. Light efficiency per unit area
 - 2. Light quality
 - 3. Light intensity per unit area
 - 4. Light temperature

Question ID : 630680574426
Option 1 ID : 6306802246570
Option 2 ID : 6306802246569
Option 3 ID : 6306802246568
Option 4 ID : 6306802246571
Status : Answered
Chosen Option : 3

Q.97 If the mixer motor runs but the blades don't rotate, what is the most likely issue from the following?

- Ans
- 1. Non-insulated blades
 - 2. Faulty power supply
 - 3. Jammed blades
 - 4. Loose speed control knob

Question ID : 630680574433
Option 1 ID : 6306802246599
Option 2 ID : 6306802246596
Option 3 ID : 6306802246597
Option 4 ID : 6306802246598
Status : Answered
Chosen Option : 3

Q.98 Which of the following materials is commonly used as an insulator in overhead power lines?

- Ans
- 1. Aluminium
 - 2. Copper
 - 3. Glass
 - 4. Steel

Question ID : 630680574479
Option 1 ID : 6306802246780
Option 2 ID : 6306802246783
Option 3 ID : 6306802246782
Option 4 ID : 6306802246781
Status : Answered
Chosen Option : 3

Q.99 Which of the following material conductors are often preferred where weight is concern, such as in long-distances overhead power lines?

- Ans 1. Copper
 2. Aluminium
 3. Rubber
 4. Wood

Question ID : 630680574484
Option 1 ID : 6306802246802
Option 2 ID : 6306802246803
Option 3 ID : 6306802246800
Option 4 ID : 6306802246801
Status : Answered
Chosen Option : 2

Q.100 What is the standard voltage for household electrical systems in India, affecting the connection of ceiling fans?

- Ans 1. 120 V
 2. 110 V
 3. 200 V
 4. 220 V

Question ID : 630680574440
Option 1 ID : 6306802246625
Option 2 ID : 6306802246624
Option 3 ID : 6306802246626
Option 4 ID : 6306802246627
Status : Answered
Chosen Option : 4

Q.101 What is the method commonly used for starting a synchronous motor?

- Ans 1. Variable frequency starting
 2. Autotransformer starting
 3. Soft starter starting
 4. Direct-on-line (DOL) starting

Question ID : 630680574476
Option 1 ID : 6306802246770
Option 2 ID : 6306802246771
Option 3 ID : 6306802246768
Option 4 ID : 6306802246769
Status : Answered
Chosen Option : 2

Q.102 How does a shunt contribute to range extension in an ammeter?

- Ans
- 1. By reducing the voltage
 - 2. By altering the instrument calibration
 - 3. By bypassing excess current
 - 4. By increasing the resistance

Question ID : 630680574430
Option 1 ID : 6306802246586
Option 2 ID : 6306802246587
Option 3 ID : 6306802246584
Option 4 ID : 6306802246585
Status : Answered
Chosen Option : 3

Q.103 How does the RMS value compare to the average value in an AC circuit?

- Ans
- 1. RMS value is always greater than the average value
 - 2. RMS value and average value are unrelated
 - 3. RMS value is always less than the average value
 - 4. RMS value is always equal to the average value

Question ID : 630680574404
Option 1 ID : 6306802246483
Option 2 ID : 6306802246480
Option 3 ID : 6306802246482
Option 4 ID : 6306802246481
Status : Answered
Chosen Option : 4

Q.104 Why is a low value of earth resistance important in electrical installations?

- Ans
- 1. To improve the aesthetic appeal of the installation
 - 2. To minimize the risk of electric shock
 - 3. To reduce the cost of wiring
 - 4. To increase power consumption

Question ID : 630680574423
Option 1 ID : 6306802246559
Option 2 ID : 6306802246558
Option 3 ID : 6306802246556
Option 4 ID : 6306802246557
Status : Answered
Chosen Option : 2

Q.105 What is the primary purpose of using a star (wye) connection as a starter in an induction motor?

- Ans
- 1. To improve the power factor during starting
 - 2. To increase the starting torque and current
 - 3. To reduce the starting torque and current
 - 4. To decrease the overall efficiency of the motor

Question ID : 630680574461
Option 1 ID : 6306802246711
Option 2 ID : 6306802246708
Option 3 ID : 6306802246709
Option 4 ID : 6306802246710
Status : Answered
Chosen Option : 1

Q.106 What is the primary component used to convert solar energy into electricity in photovoltaic (PV) systems?

- Ans
- 1. Solar collectors
 - 2. Solar turbines
 - 3. Solar cells
 - 4. Solar reflectors

Question ID : 630680574505
Option 1 ID : 6306802246886
Option 2 ID : 6306802246884
Option 3 ID : 6306802246885
Option 4 ID : 6306802246887
Status : Answered
Chosen Option : 3

Q.107 When measuring the output of an inverter with a multimeter, what should be expected in a functional inverter?

- Ans
- 1. A sinusoidal AC voltage.
 - 2. A constant DC voltage.
 - 3. No voltage reading.
 - 4. Irregular voltage spikes.

Question ID : 630680574490
Option 1 ID : 6306802246824
Option 2 ID : 6306802246825
Option 3 ID : 6306802246827
Option 4 ID : 6306802246826
Status : Answered
Chosen Option : 1

Q.108 What is the purpose of using a dry powder extinguisher on electrical fires?

- Ans
- 1. To create a barrier against oxygen
 - 2. To break the chemical reaction in the fire
 - 3. To remove heat from the fire
 - 4. To cool down the flames

Question ID : 630680574389
Option 1 ID : 6306802246422
Option 2 ID : 6306802246421
Option 3 ID : 6306802246420
Option 4 ID : 6306802246423
Status : Answered
Chosen Option : 2

Q.109 In which transportation system are DC motors commonly used for traction purposes?

- Ans
- 1. Space Shuttles
 - 2. Passenger Aircraft
 - 3. Submarines
 - 4. Electric Trains

Question ID : 630680574457
Option 1 ID : 6306802246692
Option 2 ID : 6306802246695
Option 3 ID : 6306802246694
Option 4 ID : 6306802246693
Status : Answered
Chosen Option : 4

Q.110 What is the primary purpose of the transformer core in both shell and core type transformers?

- Ans
- 1. Insulation
 - 2. Mechanical support
 - 3. Electrical grounding
 - 4. Magnetic path for flux

Question ID : 630680574443
Option 1 ID : 6306802246639
Option 2 ID : 6306802246637
Option 3 ID : 6306802246636
Option 4 ID : 6306802246638
Status : Marked For Review
Chosen Option : 4

Q.111 Which of the following factors has the greatest impact on the efficiency of solar panels?

- Ans 1. Altitude of the installation location
 2. Color of the solar panels
 3. Humidity in the air
 4. Temperature of the surrounding environment

Question ID : 630680574481
Option 1 ID : 6306802246788
Option 2 ID : 6306802246791
Option 3 ID : 6306802246790
Option 4 ID : 6306802246789
Status : Answered
Chosen Option : 4

Q.112 Which among the following instruments is only suitable for DC?

- Ans 1. Electrodynamicometer
 2. PMMC
 3. Moving iron
 4. Both Moving iron and Electrodynamicometer

Question ID : 630680574429
Option 1 ID : 6306802246582
Option 2 ID : 6306802246581
Option 3 ID : 6306802246580
Option 4 ID : 6306802246583
Status : Answered
Chosen Option : 2

Q.113 Which of the following is a common application of synchronous motors?

- Ans 1. Ceiling Fans
 2. Electric Clocks
 3. Electric Traction Systems
 4. Air Conditioners

Question ID : 630680574475
Option 1 ID : 6306802246764
Option 2 ID : 6306802246767
Option 3 ID : 6306802246766
Option 4 ID : 6306802246765
Status : Answered
Chosen Option : 3

Q.114 What is the purpose of the prime mover in the context of an alternator in a thermal power plant?

- Ans
- 1. To control the voltage output of the alternator.
 - 2. To provide mechanical energy to drive the alternator.
 - 3. To regulate the alternator speed.
 - 4. To convert electrical energy to mechanical energy.

Question ID : 630680574469
Option 1 ID : 6306802246742
Option 2 ID : 6306802246741
Option 3 ID : 6306802246743
Option 4 ID : 6306802246740
Status : Answered
Chosen Option : 4

Q.115 Which property of solder makes it suitable for joining electronic components?

- Ans
- 1. Good non-wetting ability
 - 2. Low melting point
 - 3. Low electrical conductivity
 - 4. High melting point

Question ID : 630680574399
Option 1 ID : 6306802246461
Option 2 ID : 6306802246462
Option 3 ID : 6306802246463
Option 4 ID : 6306802246460
Status : Answered
Chosen Option : 2

Q.116 Which of the following is mainly used for triggering triacs?

- Ans
- 1. SITHS
 - 2. ASCR
 - 3. DIAC
 - 4. RCT

Question ID : 630680574503
Option 1 ID : 6306802246877
Option 2 ID : 6306802246876
Option 3 ID : 6306802246878
Option 4 ID : 6306802246879
Status : Answered
Chosen Option : 3

Q.117 Which factor has a significant impact on the efficiency of wind energy production?

- Ans
- 1. Color of the wind turbine blades
 - 2. Altitude of the wind turbine
 - 3. Temperature of the surrounding air
 - 4. Distance from the equator

Question ID : 630680574507
Option 1 ID : 6306802246895
Option 2 ID : 6306802246894
Option 3 ID : 6306802246892
Option 4 ID : 6306802246893
Status : Answered
Chosen Option : 2

Q.118 What is the recommended technique for opening the airway before giving rescue breaths?

- Ans
- 1. Nose pinch-chin lift
 - 2. Neck extension
 - 3. Jaw thrust
 - 4. Head tilt-chin lift

Question ID : 630680574391
Option 1 ID : 6306802246428
Option 2 ID : 6306802246429
Option 3 ID : 6306802246431
Option 4 ID : 6306802246430
Status : Answered
Chosen Option : 4

Q.119 In a parallel connection of cells, what happens to the total current compared to the current of a single cell?

- Ans
- 1. It becomes zero
 - 2. It remains the same
 - 3. It decreases
 - 4. It increases

Question ID : 630680574411
Option 1 ID : 6306802246508
Option 2 ID : 6306802246511
Option 3 ID : 6306802246509
Option 4 ID : 6306802246510
Status : Answered
Chosen Option : 4

Q.120 Which is the true statement for LEDs on comparison with incandescent bulbs?

Ans 1. LEDs have no filaments to heat

2. LEDs are always hot

3. LEDs last much smaller

4. LEDs require higher voltage level

Question ID : 630680574424

Option 1 ID : 6306802246563

Option 2 ID : 6306802246560

Option 3 ID : 6306802246562

Option 4 ID : 6306802246561

Status : Answered

Chosen Option : 1