

# एनर्जी एफिशिएसी सर्विसेज लिमिटेड

भारत सरकार, विद्युत मंत्रालय के सार्वजनिक क्षेत्र के उपक्रम की संयुक्त उद्यम कंपनी

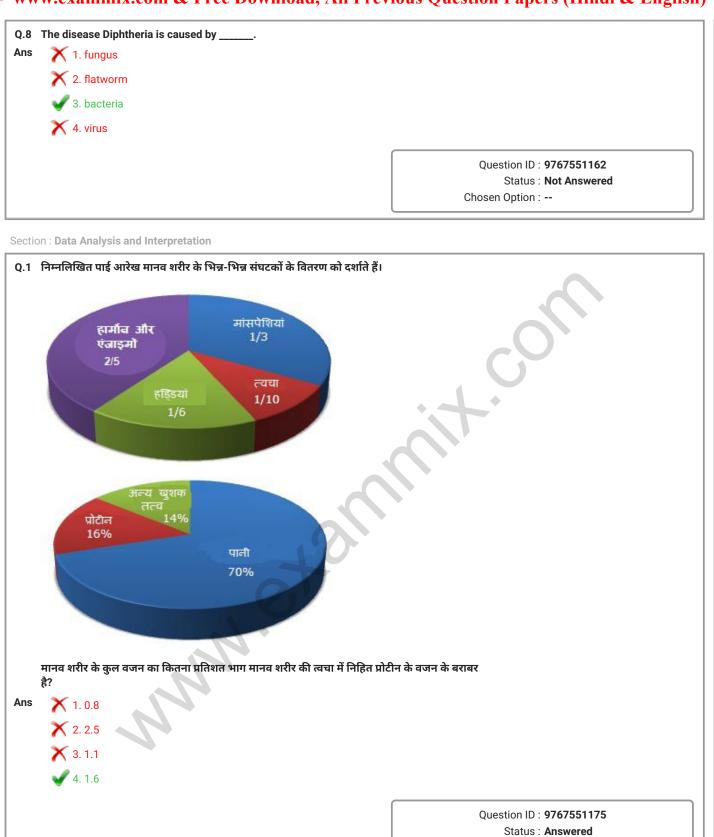
# **ENERGY EFFICIENCY SERVICES LIMITED**

A JV of PSUs under the Ministry of Power

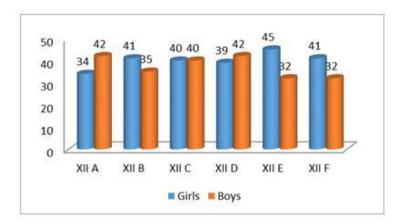
Participant ID	
Participant	www.exammix.com
Name	
Test Center	
Name	
Test Date	23/10/2020
Test Time	2:00 PM - 4:00 PM
Subject	Deputy Manager (Technical)

ection : <b>General Knowled</b>	е	
_	wing was nicknamed Napoleon of India?	
uns X 1. Tipu Sultai		
\chi 2. Aurangzeb		
🗙 3. Ashoka		
🗹 4. Samudrag	ota .	
	Ouestion ID : 9767551165	
	Status : Answered	
	Chosen Option : 1	
Q.2 The Western Ghats	re also known as the	
uns X 1. Gangotri H		
× 2. Yamunotri		
3. Sahyadri H		
× 4. Saptagiri F		
4. Saptayırı F		
	Question ID: 9767551164	
	Status : Answered	
	Chosen Option : 2	
).3 Who is the author o	the famous book 'Lowland'?	
uns 🎻 1. Jhumpa La	iri	
🔀 2. Amitav Gh	sh	
🔀 3. R.K. Naray	1	
X 4. Ruskin Bor		
	Question ID: 9767551166	
	Status: Not Answered	

Q.4	प्रसिद्ध 'सिपी मेला' भारत के निम्नलिखित में से किस राज्य में आयोजित किया	जाता है?
Ans	🗶 1. तेलंगाना	
	🗙 2. ओडिशा	
	🗸 3. हिमाचल प्रदेश	
	🗙 ४. झारखंड	
		Question ID : 9767551161 Status : Answered
		Chosen Option : 2
Q.5	Which Article of the Indian Constitution gives provision of high co	ourts for states?
Ans	1. Article 314	
	2. Article 214	
	X 3. Article 414	
	X 4. Article 514	
		Oversion ID : 0767EF1167
		Question ID : 9767551167 Status : Not Answered
		Chosen Option :
0.6	MILLS IN CHICAGONIANT CO. 1. 1. 1. 2	
Q.6 Ans	What is the full form of 'WAN' in software terminology?  1. Wide Ample Network	
	2. Wide Assessment Network	
	3. Wide Augmentation Network	
	4. Wide Area Network	
		Question ID : 9767551163
		Status : Answered
		Chosen Option : 4
Q.7	With which sport is the famous 'Hiralal Cup' associated?	
Ans	1. Hockey	
	× 2. Cricket	
	X 3. Football	
	4. Badminton	
		Question ID : 9767551168
		Status : <b>Answered</b> Chosen Option : <b>1</b>
		Onosen option. I



Q.2 The following double bar graph represents the number of boys and girls in different sections of classes 12.



The average number of girls in each section is:

Ans

**V** 1. 40

X 2. 39

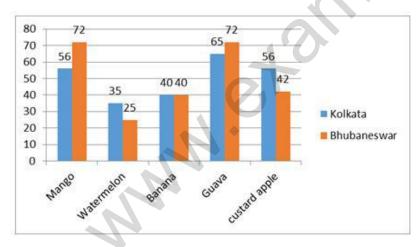
**X** 3. 37

**X** 4, 42

Question ID : 9767551170 Status : Answered

Chosen Option : 1

Q.3 The following graph represents the cost of the different fruits in Bhubaneswar and Kolkata.



What is the ratio of the cost of custard apple per kg in Kolkata to the cost to the custard apple of per kg in Bhubaneswar.

Ans

X 1.1:1

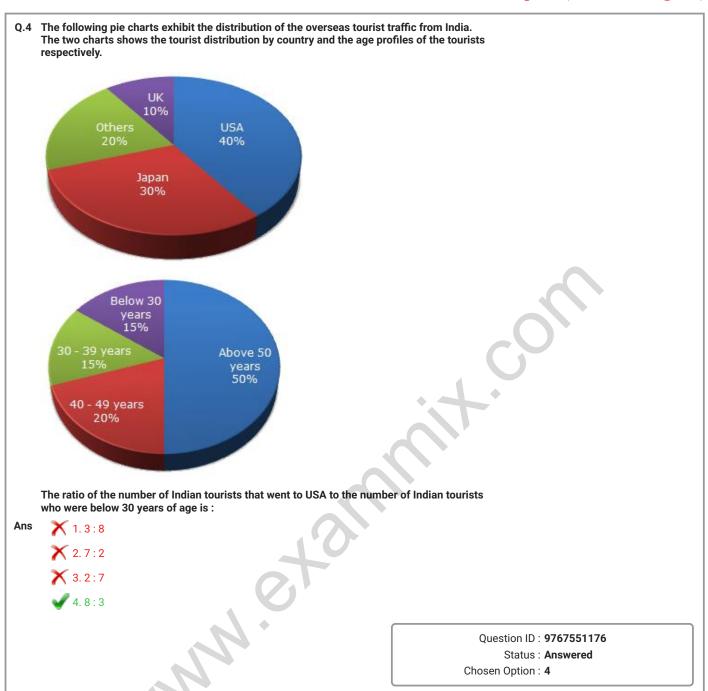
X 2.1:2

3.3:4

4.4:3

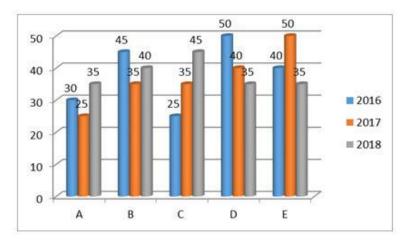
Question ID: 9767551169

Status : Answered



Free Downloaded From - www.exammix.com

Q.5 The following diagram represents the production of fertilizer in lakh tons by different companies for these years 2016, 2017, & 2018.



The average production for three years was maximum for which of the following companies?

Ans

X 1. B only

X 2. B & D both

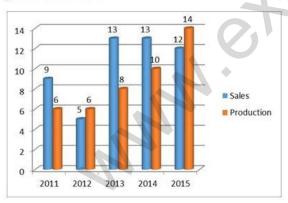
√ 3. D & E both

X 4. A only

Question ID : 9767551172 Status : Answered

Chosen Option: 3

Q.6 The following bar chart shows production and sales of cars (in thousands) over the years 2011 to 2014.



The percentage by which sales exceeds production in 2014 is:

Ans

X 1. 35 percent

\chi 2. 40 percent

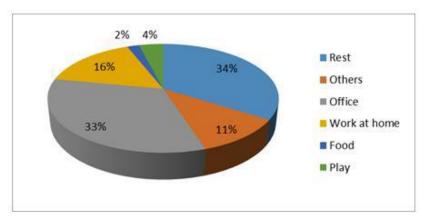
3. 30 percent

X 4. 28 percent

Question ID: 9767551171

Status: Answered

Q.7 The following pie chart exhibits the time spent by a person throughout the day (24 hours).



In the rest sector, approximately how many degrees should be there in the central angle?

Ans

X 1. 22 degree

2. 122 degree

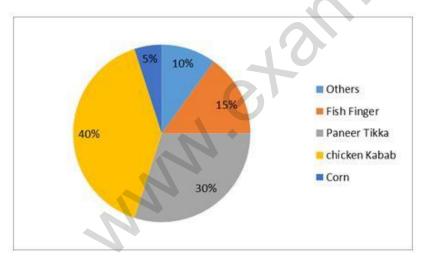
X 3. 102 degree

X 4. 132 degree

Question ID : 9767551174 Status : Answered

Chosen Option: 2

Q.8 A survey was carried out to find the favourite starter preferred by a certain group of young people. The following pie charts shows the findings of the survey.



If 90 people like fish finger, how many people were surveyed?

Ans

**7** 1. 600

2.750

**X** 3. 300

**X** 4. 500

Question ID: 9767551173 Status: Answered

Ohanan Ontion d

Chosen Option: 1

Section: Numerical Ability

Q.1 A sum grows to Rs. 36,300 in 2 years at 10 percent p.a. compound interest, interest being compounded annually. Find the sum

Ans

- √ 1. Rs. 30,000
- X 2. Rs. 43,923
- X 3. Rs. 39,930
- X 4. Rs. 33,000

Question ID: 9767551178

Status : Answered

Chosen Option: 2

Q.2 A bus starts from Delhi to a place at a distance of 360 km. An hour later, a taxi, ratio of whose speed with the bus is 3: 2, took after it. Find the speed of the taxi, if the taxi arrive the destination one and a half hour earlier than the bus.

Ans

- X 1. 60 km/h
- ✓ 2. 72 km/h
- X 3. 180 km/h
- X 4. 48 km/h

Question ID: 9767551184

Status: Answered

Chosen Option: 2

Q.3 Solve the Following equation:

$$1 + \frac{\tan^2 \theta}{1 + \sec \theta} = ?$$

Ans

- X 1. 1
- $\times$  2.  $sec^2\theta$
- $\times$  3.  $tan^2\theta$
- **√** 4. sec θ

Question ID: 9767551177

Status : **Answered** 

Q.4 Ritu does self-study for  $5\frac{3}{4}$  hours daily. She devotes  $1\frac{1}{4}$  hours to English,  $\frac{2}{3}$  hours to Hindi, and  $1\frac{1}{2}$  hours to Maths. How much time does she devote to other subjects?

Ans

- $\times$  1.  $3\frac{5}{8}$  hours
- $\checkmark$  2.  $2\frac{1}{3}$  hours
- $\times$  3.  $3\frac{1}{3}$  hours
- $\times$  4.  $2\frac{2}{3}$  hours

Question ID : 9767551182 Status : Answered

Chosen Option: 3

## <sup>0.5</sup> एक कोण का माप कितना होगा,जो अपने पूरक से 28° अधिक है?

Ans

- X 1. 76°
- X 2. 31°
- √ 3. 104°
- X 4. 59°

Question ID : 9767551180 Status : Answered

Chosen Option: 4

Q.6 A share broker invested Rs. 1,00,000 in the stock market and suffered a loss of 5 percent on his investment at the end of the year. He invested his money again for the second year and gained profit 10 percent. Find his net profit or loss percentage.

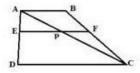
Ans

- 1. 4.5 percent profit
- X 2. 5 percent profit
- ★ 3. 1 percent loss
- X 4. 1 percent profit

Question ID: 9767551179

Status : **Answered** 

Q.7 In the figure,  $AB \parallel EF \parallel DC$ , AE = 4 cm, ED = 6 cm, FC = 9 cm. Find BC.



Ans

- X 1. 14 cm
- X 2. 6 cm
- X 3. 16 cm
- √ 4. 15 cm

Question ID : 9767551181 Status : Answered

Chosen Option: 1

Q.8 8 पुरुष या 10 मिहलाएं किसी कार्य को 60 दिनों में पूरा कर सकती हैं। उसी कार्य को पूरा करने में 24 पुरुषों और 30 मिहलाओं को कितना समय लगेगा?

Ans

- 🗙 1 8 दिन
- **×** 2. 8  $\frac{7}{9}$  **दिन**
- **√** 3. 10 दिन
- $\times$  4. 12 $\frac{1}{2}$  Gिन

Question ID : 9767551183 Status : Answered

Chosen Option: 3

Section: Current Affairs

Q.1 In which of the following cities, India and United Kingdom launched two year initiative-Innovating for Clean Air (IfCA)?

Ans

- 🔨 1. Kolkatta
- 2. Mumba
- X 3. Chennai
- 4. Bengaluru

Question ID: 9767551188

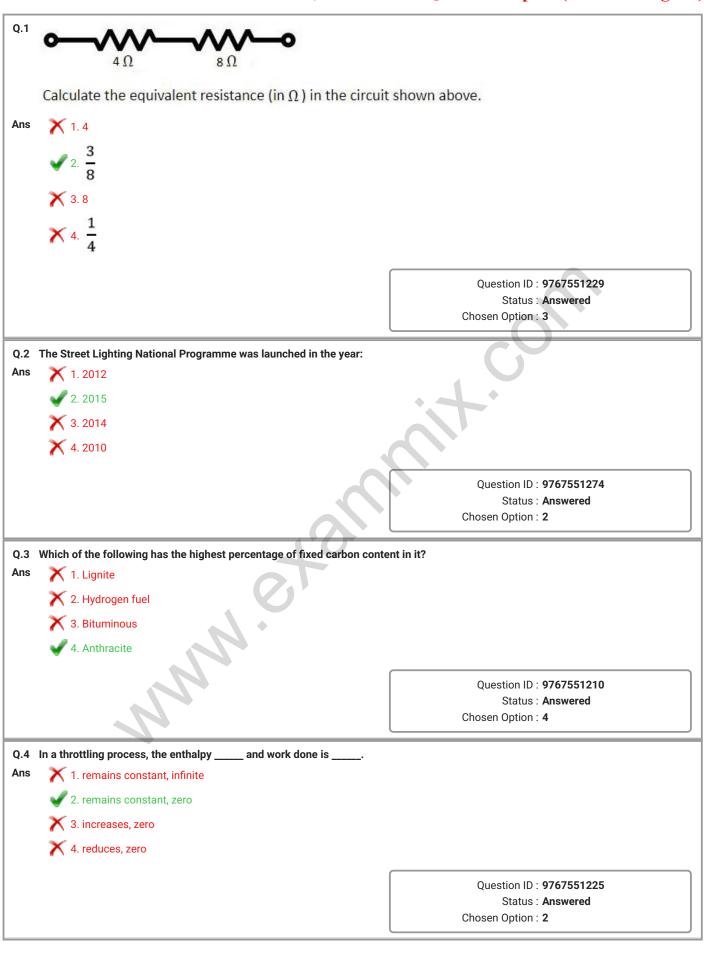
Status : Answered

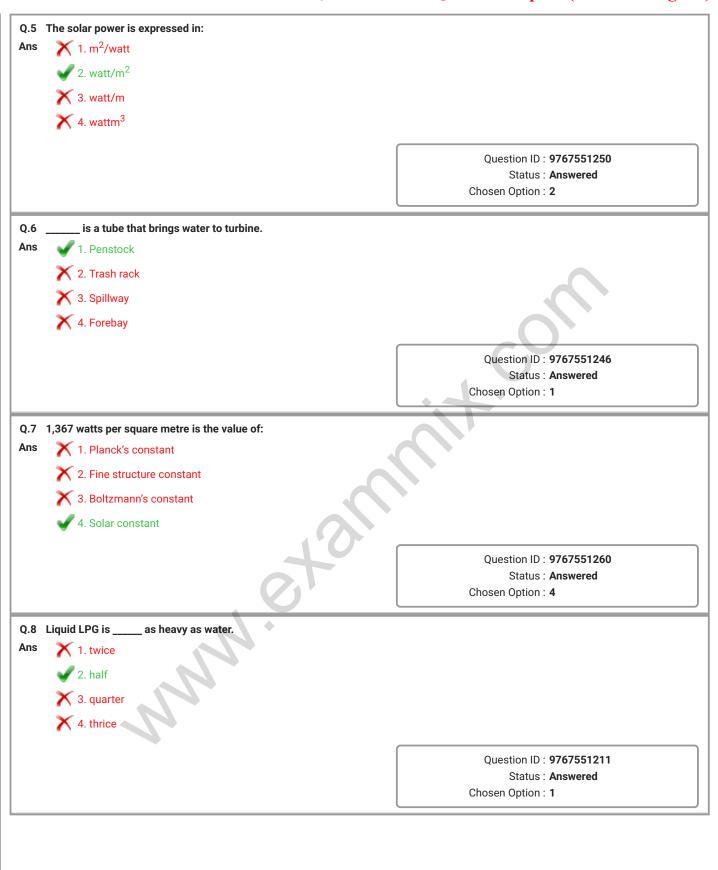
Ans	√ 1. Deeksharambh	
	× 2. Nishtha	
	X 3. Ayushman Bharat	
	X 4. Swayamprabha	
	. ondyampiasha	
		Question ID : 9767551187
		Status : <b>Not Answered</b> Chosen Option :
		· .
Q.3	Which among the following countries topped the Internationa (ISSF) Combined World Cup 2019 with 30 medals?	Il Shooting Sport Federation
Ans	🗙 1. Bangladesh	
	🔀 2. China	
	√ 3. India	
	X 4. Nepal	
		Question ID: 9767551192 Status: Not Answered
		Chosen Option:
	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	
Q.4	विश्व स्वास्थ्य संगठन (डब्ल्यू.एच.ओ.) ने निम्नलिखित में से किस देश में इब आपातकाल घोषित किया?	बाला क प्रकाप का वाश्वक स्वास्थ्य
Ans	🗸 1. डी.आर. कांगो	
	🗙 2. फिलिस्तीन	
	🗙 3. इजराइल	
	🗙 4. केन्या	
	, 0	Question ID: 9767551185
	<i></i>	Status : <b>Not Answered</b> Chosen Option :
Q.5	Which of the following states has officially declared Yeoman species as their state butterfly?	(Cirrochroa thais) butterfly
Ans	X 1. Rajasthan	
	2. Tamil Nadu	
	X 3. Maharashtra	
	X 4. Karnataka	
		Question ID: 9767551189
		Status : <b>Answered</b> Chosen Option : <b>2</b>
		Status : <b>Answered</b> Chosen Ontion : <b>2</b>

Q.6	Name the Indian batsman who became the first batsman in the world to a World Cup tournament?	o score 5 centuries in
Ans	X 1. Suresh Raina	
	× 2. Virat Kohli	
	X 3. Yuvraj Singh	
	√ 4. Rohit Sharma	
		0 11 12 22722444
		Question ID : 9767551191 Status : Answered
		Chosen Option : 4
Q.7	Who among the following won the Sahitya Akademi Award 2019 for the Darkness"?	e book, "An Era of
Ans	X 1. S.Ramakrishnan	
	2. Sashi Tharoor	
	X 3. Inderjeet Kesar	
	X 4. Chitra Mudgal	69
		Question ID : 9767551190
		Status : <b>Answered</b> Chosen Option : <b>2</b>
		Chosen Option . 2
Ans	<ul> <li>मिडवाइफ का वर्ष (ईयर ऑफ नर्स एंड मिडवाइफ)" के रूप में नामित किया है।</li> <li>★ 1. सुधा मूर्ति</li> <li>★ 2. इंद्राणी नाडिसेन</li> <li>★ 3. मदर टेरेसा</li> <li>★ 4. फ्लोरेंस नाइटिंगेल</li> </ul>	
		Question ID : 9767551186 Status : Answered Chosen Option : 4
Section	on : English	
	Select the most appropriate synonym of the given word.	
	HARMONY	
Ans	1. Disorganisation	
	2. Coherence	
	X 3. Confusion	
	X 4. Dissonance	
		Question ID : 9767551200 Status : Answered Chosen Option : 2
		Cnosen Uption : 2

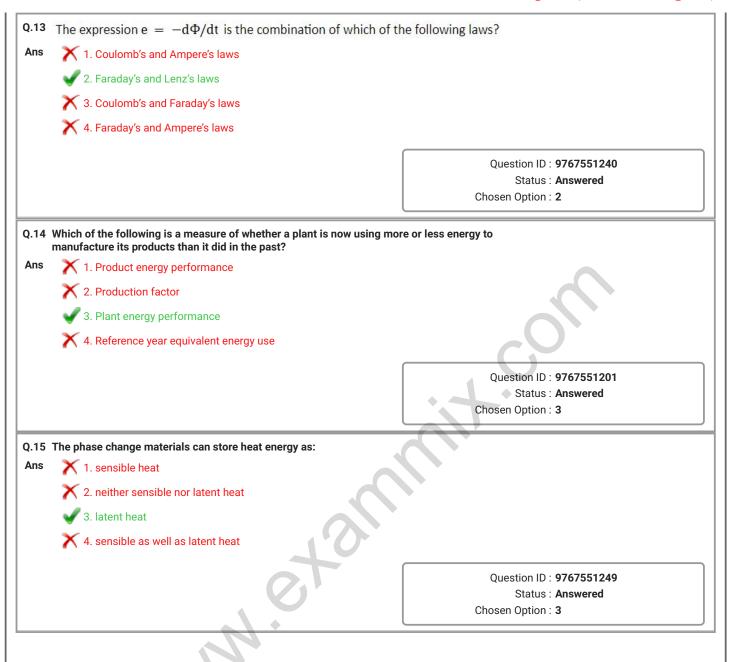
Q.2 Select the option that can be used as a one-word substitute for the given group of words. A box made of wood with a wire front in which small animals, such as rabbits, are kept . Ans 2. Gymnasium 3. Kennel 4. Creche Question ID: 9767551199 Status: Answered Chosen Option: 1 Q.3 Select the most appropriate meaning of the following idiom. All and sundry Ans X 1. A hard situation 2. Work done during the daytime 3. Everyone X 4. None Question ID: 9767551198 Status: Answered Chosen Option: 1 Q.4 Select the option that expresses the given sentence in reported speech. The teacher said, "Be quiet and listen to my words." Ans 1. The teacher urged them to be quiet and listen to his words. 2. The teacher said them to be quiet and listen to him words. 3. The teacher said them to be quiet and listen to my words. 4. The teacher asked him to be quiet and listen to my words. Question ID: 9767551194 Status: Answered Chosen Option: 1 Q.5 Select the most appropriate ANTONYM of the given word. **POMPOUS** Ans 💢 1. Bumptious 2. Assumptive 3. Modest X 4. Arrogant Question ID: 9767551195 Status: Not Answered Chosen Option: --

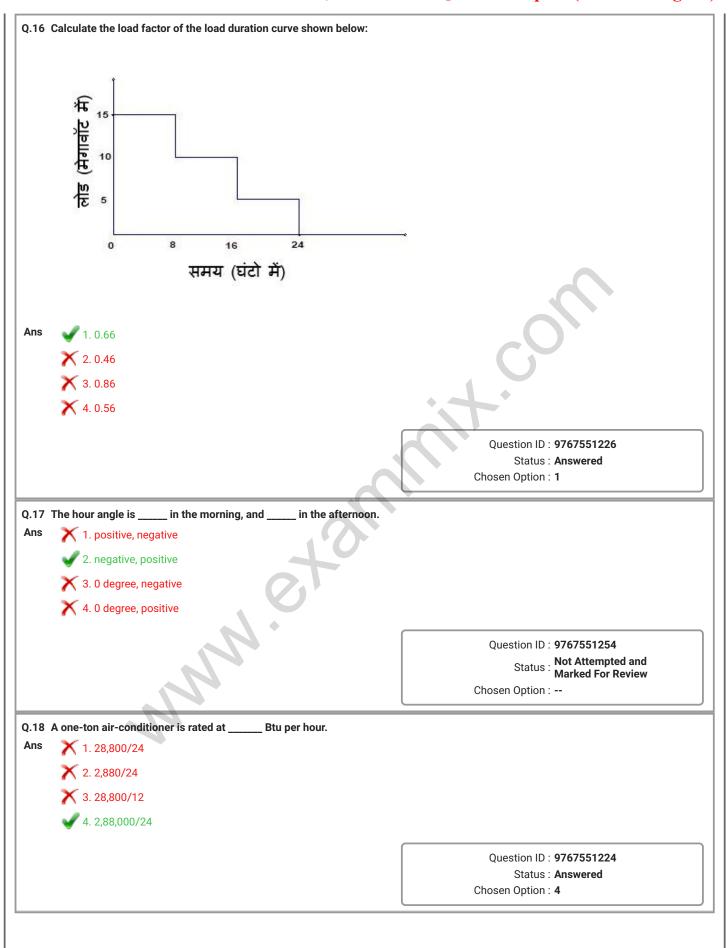
.6	The following sentence has been divided into four parts. One of them	n contains an error.
	Select the part that contains the error from the given options.	ositano di cirol.
	Her husband / still trusted her / though she / had deceives him.	
ns	X 1. still trusted her	
	× 2. though she	
	X 3. Her husband	
	4. had deceives him	
	•	
		Question ID: 9767551193
		Status : <b>Answered</b> Chosen Option : <b>1</b>
		Onoscii Option. 1
.7	Choose the correctly spelt word from the given options.	
ns	X 1. Consansus	
	× 2. Consansuas	
	X 3. Consensous	
	✓ 4. Consensus	
		Question ID : 9767551197
		Status : <b>Answered</b> Chosen Option : <b>4</b>
.8	Choose the most appropriate option to fill in the blank.	
	He is for you in the compound.	
าร	X 1. waits	
	× 2. waited	
	X 3. wait	
	4. waiting	
		Question ID : 9767551196
	· N	Status : <b>Answered</b>
		Chosen Option : 4
_		
	on : Questions on Subject Discipline	



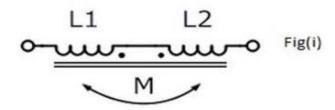


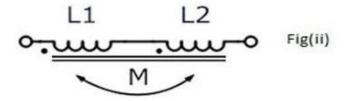
Q.9	Which of the following is NOT a component in a thermal power	plant?
Ans	X 1. Economizer	
	× 2. Boiler	
	√ 3. Reactor	
	X 4. Chimney	
		Ougation ID : 0767551245
		Question ID : 9767551245 Status : Answered
		Chosen Option : 3
2.10	The overall heat transfer coefficient is measured in kcal/hr/	/°C.
Ans	X 1. m³	
	× 2. m <sup>4</sup>	
	<b>X</b> 3. m	
	✓ 4. m <sup>2</sup>	
		Question ID : 9767551221
		Status : Answered
		Chosen Option : 4
0.11	A refrigerator is a reversed, and a heat pump is similar t	o a/an
Ans	1. heat engine, refrigerator respectively	
	2. heat pump, refrigerator respectively	
	X 3. heat pump, heat engine respectively	
	X 4. heat engine, heat engine respectively	
	1.0	~
		Question ID : 9767551217 Status : Answered
		Chosen Option : 1
).12	An 80 $\Omega$ resistor has a current $i=2.5\sin\omega t$ (A). Calculate the po	avera discinated in the posietor
Ans	15-95-96 (C) (C) (S) (S) (C) (C) (S) (C) (C) (C) (C) (C) (C) (C) (C) (C) (C	ower dissipated in the resistor.
	$\times$ 1. $25\sin^2\omega^2$ t (W)	
	$\times$ 2. 2.5 sin $\omega$ t (W)	
	$\times$ 3. 2.5 sin <sup>2</sup> $\omega$ t (W)	
	$\checkmark$ 4. $50 \sin^2 \omega t$ (W)	
		Question ID: 9767551230
		Status : Answered
		Chosen Option : 1





Q.19





Ans

$$\times$$
 1. L<sub>1</sub> + L<sub>2</sub> - M; L<sub>1</sub> + L<sub>2</sub> + M

$$\times$$
 2.  $L_1 + L_2 + M$ ;  $L_1 + L_2 - M$ 

$$\checkmark$$
 3. L<sub>1</sub> + L<sub>2</sub> − 2M; L<sub>1</sub> + L<sub>2</sub> + 2M

$$\times$$
 4. L<sub>1</sub> + L<sub>2</sub> + 2M; L<sub>1</sub> + L<sub>2</sub> - 2M

Question ID: 9767551237

Status : **Answered** 

Chosen Option: 3

Q.20 In HVAC systems, which of the following components does NOT come under the chiller plant?

Ans

X 1. Evaporator unit

X 2. Condenser unit

X 3. Compressor unit

4. Air handling unit

Question ID: 9767551223

Status: Answered

Chosen Option: 4

Q.21 Which of the following schemes of the Govt. of India is in relation to the LED bulbs?

Ans

🗙 1. AJAY

X 2. E-mobility

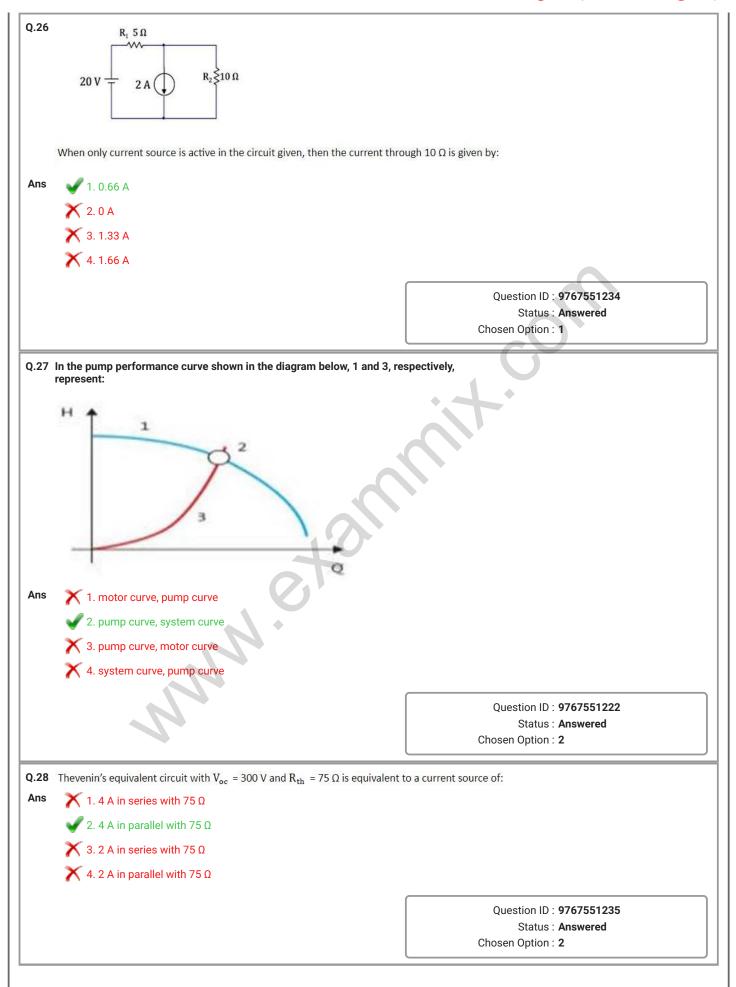
3. UJALA

X 4. SLNP

Question ID : 9767551272

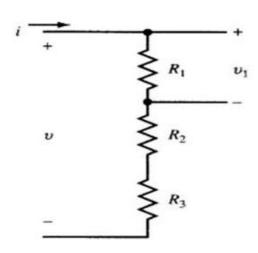
Status: Answered

If 'K' is the coefficient of coupling between two coils, then which of the opti the wrong value of K.	ons represents
<b>X</b> 1. K = 0.8	
<b>√</b> 2. K = 1.2	
X 3. K = 0.6	
<b>★</b> 4. K = 0	
	Question ID : 9767551239 Status : Answered Chosen Option : 2
Three capacitors 10 $\mu$ F, 20 $\mu$ F, 30 $\mu$ F are connected across 150 V (sinusoidal). Identify the cooptions.	rrect statement from
★ 1. The maximum voltage will be applied across 2	0 μF
✓ 2. The maximum voltage will be applied across 1	0 μF
	Question ID : 9767551228 Status : Answered Chosen Option : 2
Which of the following parameters of a battery is a measure of a rate of dis relative to its capacity?	charge of battery
X 1. Decay rate	
2. Cycle lifetime	
✓ 3. C-rate	
X 4. Discharge rate	
	Question ID : 9767551270 Status : Answered Chosen Option : 3
6 Which of the below is highly toxic?	
X 1. Refrigerant - 12	
2. Carbon dioxide	
√ 3. Ammonia	
X 4. Freon	
	Question ID : 9767551216 Status : Answered
3	the wrong value of K.  1. K = 0.8  2. K = 1.2  3. K = 0.6  4. K = 0  Three capacitors 10 μF, 20 μF, 30 μF are connected across 150 V (sinusoidal). Identify the cooptions.  1. The maximum voltage will be applied across 2  2. The maximum voltage will be applied across 3  3. The maximum voltage will be applied across 3  4. The minimum voltage will be applied across 10  Which of the following parameters of a battery is a measure of a rate of disrelative to its capacity?  1. Decay rate  2. Cycle lifetime  3. C-rate  4. Discharge rate  Which of the below is highly toxic?  1. Refrigerant - 12  2. Carbon dioxide



Q.29	The cycle is employed for solar thermal power generation.	
Ans	1. Rankine	
	× 2. Otto	
	X 3. diesel	
	× 4. dual	
	4. uudi	
		Question ID : 9767551252
		Status : <b>Answered</b>
		Chosen Option : 1
0.30	Which of the following is NOT a heat transfer fluid in solar power utili:	sation?
Ans	✓ 1. Freon	
	× 2. Molten salt	
	X 3. Synthetic oil	
	X 4. Pressurised steam	
		Question ID: 9767551251
		Status : Answered
		Chosen Option : 1
Q.31	Which of the following is a solid fuel?	
Ans	✓ 1. Peat	
	× 2. LSHS	
	X 3. LD0	
	4. Hydrogen fuel	
		Question ID: 9767551209
		Status : Answered
		Chosen Option : 1
0.32	In the power measurement by the two wattmeter method, if $W_1 = W_2$ :	= 2000 W. then the
	system is said to be operating at:	,
Ans	1. lagging power factor	
	2. unity power factor	
	X 3. zero power factor	
	× 4. leading power factor	
		0 11 10 222221212
		Question ID : <b>9767551242</b> Status : <b>Answered</b>
		Chosen Option : 2
		·

Calculate the voltage v-  $v_1$  in the following circuit.



Ans

$$\times$$
 1.  $V\left(\frac{R_1}{R_2 + R_3}\right)$ 

$$\checkmark$$
 2.  $V\left(\frac{R_2+R_3}{R_1+R_2+R_3}\right)$ 

$$\times$$
 3.  $V\left(\frac{1}{R_1+R_2+R_3}\right)$ 

$$\times$$
 4.  $V\left(\frac{R_1+R_2+R_3}{R_1}\right)$ 

Question ID: 9767551231

Status: Answered

Chosen Option: 2

#### Q.34 Which of the following factors is NOT involved in deciding the final cost of purchased electricity?

Ans

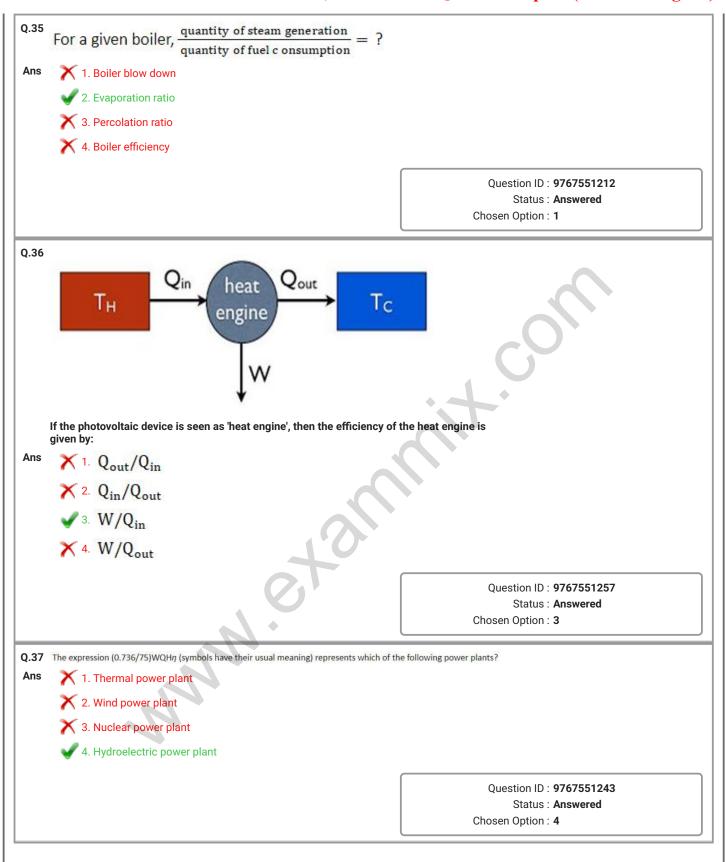
1. Ripple factor

X 2. Power factor

X 3. Maximum demand charges

X 4. kWH charges

Question ID: 9767551204 Status: Answered



Q.38 The typical life time of a PV module is approximately:

Ans

- 🗙 1. 15 years
- 2. 25 years
- X 3. 10 years
- X 4. 5 years

Question ID : 9767551269 Status : Answered

Chosen Option: 2

Q.39 A three-phase induction motor's synchronous speed is 1,000 rpm. Then which of the following motor speeds is practically impossible?

Ans

- 🖊 1. 1,000 rpm
- \chi 2. 950 rpm
- X 3. 920 rpm
- X 4. 980 rpm

Question ID: 9767551215

Status : Answered

Chosen Option: 1

 $\textbf{Q.40} \quad \text{If the power factor of an installation is improved from } \cos\Phi_1 \text{ to } \cos\Phi_2 \text{ , then the distribution losses will come down by:}$ 

Ans

- $\times$  1 1 + (cos $\Phi_1$ /cos $\Phi_2$ )
- $\times$  2.  $\cos\Phi_1/\cos\Phi_2$
- $\checkmark$  3.  $1 (\cos\Phi_1/\cos\Phi_2)2$
- $\times$  4. 1  $(\cos\Phi_1/\cos\Phi_2)$

Question ID: 9767551214

Status: Answered

Chosen Option : 3

Q.41 Pick the odd option out.

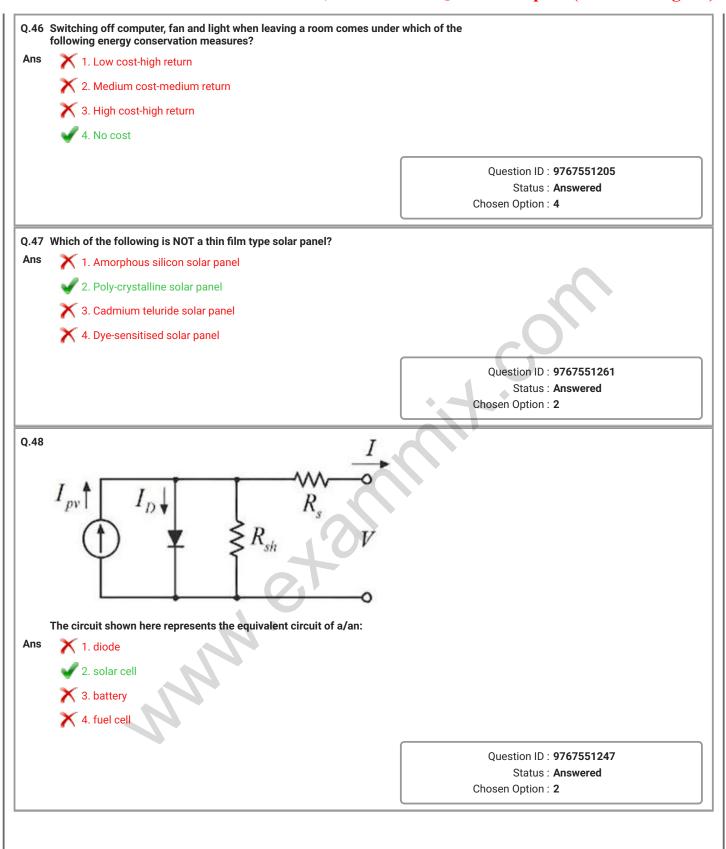
Ans

- 🗡 1. Altitude angle
- X 2. Hour angle
- X 3. Zenith angle

4. Load angle

Question ID : 9767551256 Status : Answered

	Which unit is used to measure the specific gravity of liquid fuels	s?
Ans	<b>X</b> 1. Kg/m <sup>2</sup>	
	× 2. Kg/m	
	3. It has no measuring unit	
	<b>X</b> 4. Kg/m <sup>3</sup>	
		Question ID : 9767551208
		Status : <b>Answered</b> Chosen Option : <b>3</b>
	In terms of the solar energy utilisation, MPPT stands for:	
Ans	1. Minimum Power Portion Tracking	
	2. Minimum Power Point Tracking	
	X 3. Maximum Power Portion Tracking	
	4. Maximum Power Point Tracking	
		Question ID: 9767551248
		Status : Answered
		Chosen Option : 4
- 1	manage their energy needs through energy-efficient technologi	es?
Ans	manage their energy needs through energy-efficient technologi  1. EESL  2. IGBC  3. EIL  4. BEE	Question ID : <b>9767551273</b> Status : <b>Answered</b>
	<ul><li>✓ 1. EESL</li><li>X 2. IGBC</li><li>X 3. EIL</li></ul>	Question ID: <b>9767551273</b>
Ans	<ul><li>✓ 1. EESL</li><li>X 2. IGBC</li><li>X 3. EIL</li></ul>	Question ID : <b>9767551273</b> Status : <b>Answered</b>
Ans Q.45 I	<ul> <li>✓ 1. EESL</li> <li>X 2. IGBC</li> <li>X 3. EIL</li> <li>X 4. BEE</li> </ul>	Question ID : <b>9767551273</b> Status : <b>Answered</b>
Ans Q.45 I	1. EESL  2. IGBC  3. EIL  4. BEE  In a solar system, zenith angle + solar altitude angle = ?	Question ID : <b>9767551273</b> Status : <b>Answered</b>
Ans Q.45 I	1. EESL  2. IGBC  3. EIL  4. BEE  In a solar system, zenith angle + solar altitude angle = ?  1. 90 degree	Question ID : 9767551273 Status : Answered
Ans Q.45 I	1. EESL  2. IGBC  3. EIL  4. BEE  In a solar system, zenith angle + solar altitude angle = ?  1. 90 degree  2. 180 degree	Question ID : 9767551273 Status : Answered
Ans Q.45 I	1. EESL  2. IGBC  3. EIL  4. BEE  In a solar system, zenith angle + solar altitude angle = ?  1. 90 degree  2. 180 degree  3. 60 degree	Question ID : <b>9767551273</b> Status : <b>Answered</b>
Ans	1. EESL  2. IGBC  3. EIL  4. BEE  In a solar system, zenith angle + solar altitude angle = ?  1. 90 degree  2. 180 degree  3. 60 degree	Question ID : 9767551273 Status : Answered Chosen Option : 4



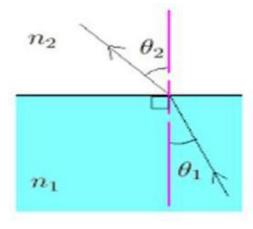
Q.49 The Act that is related to the efficient use of energy and its conservation is:

- 1. Energy Conservation Act, 2007
- - 2. Indian Electricity Act, 2003
  - - 3. Indian Electricity Act, 2010
  - - 4. Energy Conservation Act, 2001

Question ID: 9767551279 Status: Answered

Chosen Option: 4

Q.50



For the figure shown here, according to Snell's Law,  $\frac{\sin \theta_1}{\sin \theta_2}$ 

Ans

- X 3. n<sub>2</sub>

Question ID: 9767551263

Status: Answered

Chosen Option: 4

Q.51 In solar-operated systems, the Balance of System (BOS) refers to:

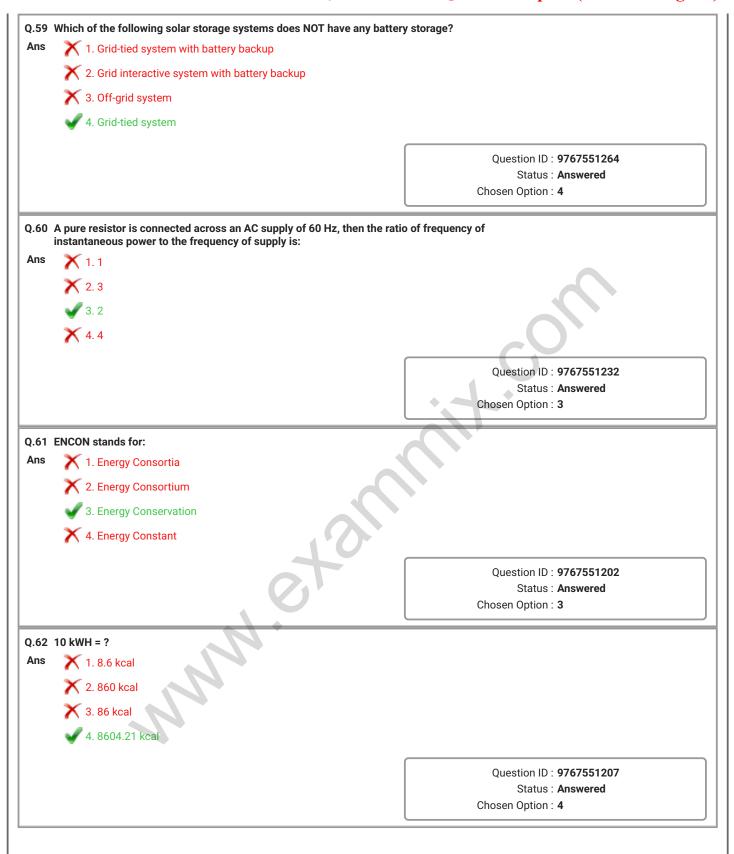
Ans

- X 1. inverters
- 2. all components working in a solar power system
- 3. batteries
- \chi 4. solar panels

Question ID: 9767551267 Status: Answered

Q.52	The flux through a 1000-turn coil is defined by $t^3$ -2t milli weber, where seconds. Calculate the magnitude of the induced emf at $t=2$ seconds.	't' is the time in
Ans	<b>X</b> 1.9 ∨	
	✓ 2.10 V	
	X 3.11 V	
	<b>★</b> 4.12 V	
	4.12	
		Question ID: 9767551241
		Status : <b>Answered</b> Chosen Option : <b>2</b>
		Chosen Option . 2
2.53	Reducing the RPM of a fan by 10 percent decreases the static pressure	e by:
Ans	X 1. 39 percent	
	√ 2. 19 percent	
	X 3. 29 percent	
	X 4. 9 percent	
		Question ID : 9767551220 Status : Answered
		Chosen Option : 2
	1,000 equivalent annual sun hours correspond to hours/day.	
Ans	1.2.8	
	× 2. 4.8	
	✗ 3.3.8	
	<b>X</b> 4. 1.8	
		Question ID : 9767551271
		Status : Answered
		Chosen Option : 3
 Q.55	In the Japanese concept of energy conservation called 'KAIZEN', the s	yllable 'KAIZEN'
<b>A</b>	means:	
Ans	1. continuous management	
	2. continuous improvement	
	X 3. energy management	
	X 4. energy conservation	
		Question ID : 9767551203
		Status : <b>Answered</b>
		Chosen Option : 2

Q.56 In a standalone solar water pumping system, the voltage of the solar pump = ? 1. (voltage of one solar module) × (number of PV modules in series) 2. (voltage of one solar module) × (number of PV modules in parallel) X 3. voltage of one solar cell X 4. voltage of one solar module Question ID: 9767551255 Status: Answered Chosen Option: 1 Q.57 1 unit of Certified Emission Reduction represents: X 1. 10 tonne of carbon-dioxide-equivalent emission abatement 2. 1 tonne of carbon-monoxide-equivalent emission abatement 3. 5 tonne of carbon-monoxide-equivalent emission abatement 4. 1 tonne of carbon-dioxide-equivalent emission abatement Question ID: 9767551280 Status: Answered Chosen Option: 4 Q.58 The PV module shown in the figure here consists of: Ans X 1. two strings of 18 cells that are connected in series 2. a string of 36 solar cells connected in series X 3. two strings of 18 cells that are connected in parallel X 4. a string of 36 solar cells connected in parallel Question ID: 9767551258 Status: Answered Chosen Option: 2



4.00	Which of the following instruments is used to mea (beam + diffuse) on a horizontal surface?	asure total hemisphere solar radiation
Ans	1. Pyranometer	
	X 2. Pyrheliometer	
	X 3. Manometer	
	X 4. Osmometer	
	4. Osmometei	
		Question ID: 9767551259
		Status: Answered
		Chosen Option: 1
Q.64	The specific ratio of a compressor is:	
Ans	X 1. equal to 1	
	× 2. upto 1.11	
	√ 3. more than 1.20	
	X 4. between 1.11 to 1.20	
	• •	
		Question ID : 9767551219
		Status : <b>Answered</b> Chosen Option : <b>3</b>
		Gilderi option: 5
Q.65	The generators operating at 3,000 rpm, 3,000 rpm appropriate to be used in the plants respec	and 300 rpm, respectively, are
Ans	1. hydro, thermal, nuclear power	
	2. hydro, nuclear, thermal power	
	3. thermal, nuclear, hydropower	
	4. thermal, hydro, nuclear power	
	4. thermal, nydro, nuclear power	
		Question ID: 9767551244
		Status : Answered
	16	
0.66	While calculating humidity ratio, we consider the	Status : <b>Answered</b> Chosen Option : <b>3</b>
	While calculating humidity ratio, we consider the	Status : <b>Answered</b> Chosen Option : <b>3</b>
	1. volume of wet air	Status : <b>Answered</b> Chosen Option : <b>3</b>
	1. volume of wet air 2. mass of dry air	Status : <b>Answered</b> Chosen Option : <b>3</b>
	1. volume of wet air 2. mass of dry air 3. volume of dry air	Status : <b>Answered</b> Chosen Option : <b>3</b>
	1. volume of wet air 2. mass of dry air	Status : <b>Answered</b> Chosen Option : <b>3</b>
Q.66 Ans	1. volume of wet air 2. mass of dry air 3. volume of dry air	Status : Answered Chosen Option : 3  in the denominator.
	1. volume of wet air 2. mass of dry air 3. volume of dry air	Status : <b>Answered</b> Chosen Option : <b>3</b>

Q.67 The condenser operation is opposite to that of the \_\_\_\_\_ operation. Ans 2. actuator 3. compressor 4. evaporator Question ID: 9767551213 Status: Answered Chosen Option: 4 Q.68 Which of the following has replaced the Bachat Lamp Yojana? 🖋 1. UJALA 2. E-mobility 3. AJAY X 4. SLNP Question ID: 9767551276 Status: Answered Chosen Option: 1 Q.69 5Ω 10Ω 20 V 10Ω В The Norton's resistance of the given circuit is (consider 20  $\Omega$  as load resistance): 1. 23.33 Ω Ans 🗙 2. 33.33 Ω × 3. 13.33 Ω × 4. 3.33 Ω Question ID: 9767551236 Status: Answered Chosen Option: 3

Q.70	Radiometry is the science of:		
Ans	1. measurement of resistance		
	2. measurement of light		
	X 3. measurement of radioactivity		
	X 4. measurement of electrical energy		
		Question ID : 9767551266 Status : Answered	
		Chosen Option : 3	
Q.71	Q.71 As of data available till January 2020, the electric vehicle sales in India are less than of the total vehicle sales.		
Ans	X 1. 8 percent		
	X 2. 10 percent		
	X 3. 5 percent		
	4. 1 percent		
		Question ID : 9767551277 Status : Answered	
		Chosen Option : 4	
0.70			
Q.72 Ans	Global radiation refers to the, which strikes a horizontal surface  1. direct component of sunlight		
	2. diffuse component of sunlight		
	3. direct-normal and diffuse component of sunlight		
	4. direct-normal component of sunlight		
	4. direct normal component of sunight		
		Question ID : 9767551262	
		Status : <b>Answered</b> Chosen Option : <b>3</b>	
		chesch option: 5	
Q.73	Which of the following is the least efficient?		
Ans	<b>★</b> 1. CFL		
	2. Neon lamp		
	3. Incandescent lamp		
	X 4. Fluorescent lamp		
		Question ID : 9767551278	
		Status : Answered	
		Chosen Option : 2	

· ·	Zero inductance and infinite resistance are the features of:		
Ans	1. Short-circuited coil		
	2. coil connected to an AC voltage source		
	X 3. coil connected to a DC voltage source		
	√ 4. open coil		
		Question ID : 9767551238 Status : Answered	
		Chosen Option : 4	
0.75	Illumination level is measured with the help of which of the following in		
Q./5 Ans	struments?		
7410	1. Lux meter		
	2. Manometer		
	X 3. Leak detector		
	X 4. Fyrite		
		Question ID : 9767551206	
		Status : Answered	
		Chosen Option : 1	
Q.76	Which of the below is the correct full form of AJAY?		
Ans	🗙 1. Atal Jeevan Yoga		
	X 2. Atal Jana Yojana		
	✓ 3. Atal Jyoti Yojana		
	X 4. Atal Jeevan Yojana		
		Question ID : 9767551275	
		Status : Answered Chosen Option : 3	
Q.77 A 40 mH inductor is supplied with a current of $2 \sin (314t - 45^{\circ})$ . The average power consumed by the inductor is:			
Ans 1. Zero			
	X 2. 40 W X 3. 20 W X 4. 10 W		
	<b>★</b> 3. 20 W		
	X 4. 10 W		
		Ougstion ID : 9767FF4999	
		Question ID : 9767551233 Status : Not Answered	
		Chosen Option :	

