SSC JE EE 2018

Held on

26th Sep 2019

Morning Shift

Junior Engineer Civil Mechnical and Electrical 2018 Paper I

Roll No.	
Registration No.	
Name	
Test Venue	iON Digital Zone iDZ Kottayam
Test Time	10:00 AM - 12:00 PM
Test Date	26/09/2019
Subject	Junior Engineer 2018 Electrical

Section: General Intelligence and Reasoning

Q.1 Saroj walks 25 m towards west, then turns left and walks 35 m, then again turns left and walks 42 m. Then she turns left and walks 23 m, and then she finally takes a left turn and walks 17 m. How far and in which direction is she with reference to the starting point?

Ans

1. 12 m, north

X 2. 10 m, north

X 3. 10 m, south

4. 12 m, south

Question ID : 5581011272 Status : Answered Chosen Option : 4

Q.2 Select the letter that can replace the question mark (?) in the following series.

72, 119, ?, 261, 362, 487

Ans

X 1. 180

2. 18

3. 189

4. 178

Question ID : 5581011279 Status : Answered Chosen Option : 2

Q.3 Select the set in which the numbers are related in the same way as are the numbers in the following set.

15, 240, 270

Ans

X 1. 8, 72, 80

X 2. 10, 110, 135

3. 11, 132, 154

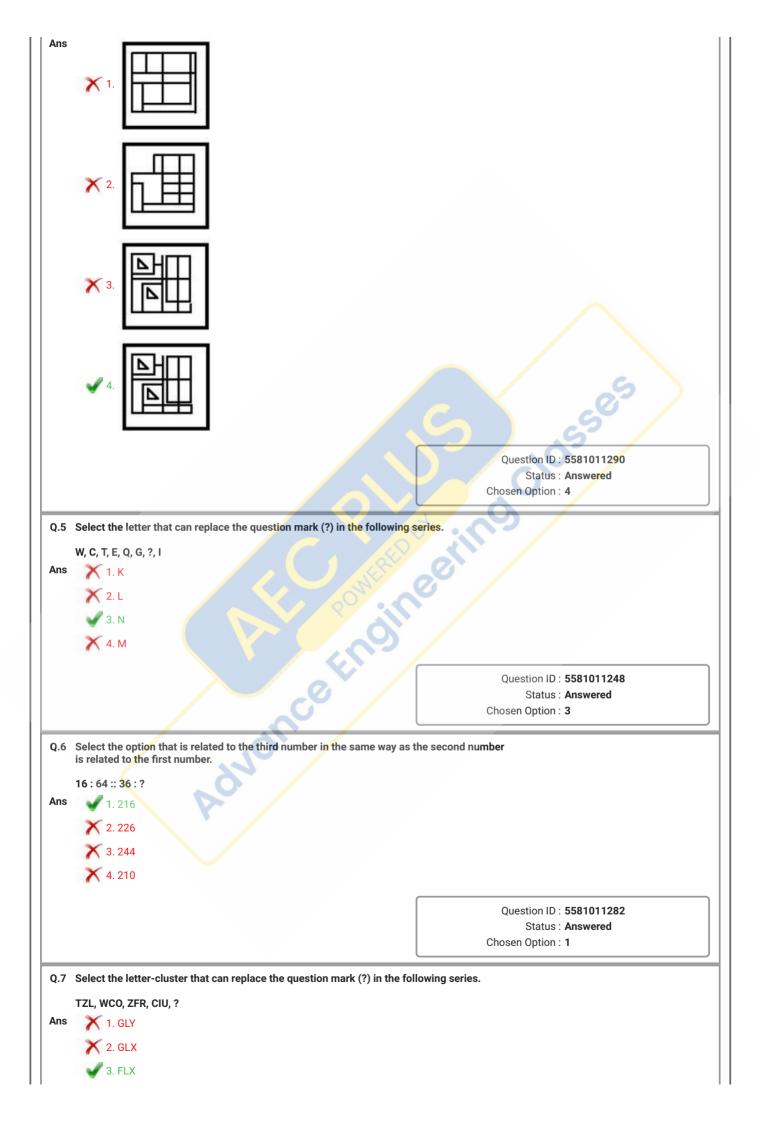
X 4. 12, 126, 252

Question ID : **5581011283**Status : **Answered**Chosen Option : **3**

Q.4 Select the option in which Figure X is embedded. (Rotation is not allowed)



Figure X





Question ID : 5581011250 Status : Answered

Chosen Option: 3

Q.8 In the Venn diagram given below, the pentagon represents 'employees', the circle represents 'females' and the rectangle represents 'graduates'. The different areas of the diagram have been marked by a number for representation of a particular group.



Which of the following group is represented by the area marked as '2'?

Ans

- √ 1. female employees but not graduates
- × 2. female graduates but not employees
- X 3. female graduate employees
- X 4. graduate employees but not females

Question ID : 5581011296 Status : Answered

Chosen Option: 1

Q.9 Select the term that can replace the question mark (?) in the following series.

CARDS, DARDS, DBRDS, DBSDS, DBSES, ?

Ans

X 1. DBEST

2. DBSET

X 3. DBTES

X 4. DBSEU

Question ID : 5581011251 Status : Answered

Chosen Option: 2

Q.10 A + B means 'A is the father of B'

A - B means 'A is the daughter of B'

A × B means 'A is the husband of B'

 $A \div B$ means 'A is the sister of B' If $Q - P \times S - T + V$, then how is T related to Q?

Ans

1. Maternal grandmother

2. Maternal grandfather

X 3. Paternal grandfather

X 4. Father

Question ID: 5581011274

Status : **Answered**

Chosen Option: 2

Q.11 Arrange the following words in the order in which they appear in an English dictionary.

- 1. Perturb
- 2. Pertain
- 3. Perform
- 4. Perfume
- 5. Perfect

Ans

1. 5, 3, 4, 2, 1

2. 5, 4, 3, 2,

X 3 5 3 4 1 3

4. 4, 5, 1, 2, 3	
	Question ID : 5581011254 Status : Answered Chosen Option : 1
2.12 In a coffee shop, a total of 58 customers came throughout the d coffee and 32 of them ordered pizza. How many customers ordered 1.14	ay. 36 of them ordered ered both coffee and pizza?
★ 2.12★ 3.8★ 4.10	
	Question ID : 5581011288 Status : Answered Chosen Option : 4
Q.13 Select the option in which Figure X is embedded. (R	Rotation is not allowed)
Figure X	S deses
*1.	all be till o
X 2.	
X 3.	
✓ 4.	
	Question ID : 5581011291 Status : Answered Chosen Option : 4
Q.14 Select the letter that can replace the question mark (?) in the fol	llowing series.
A, B, D, ?, P Ans 1. N 2. G 3. H	
3 . H ★ 4 . M	

Question ID : **5581011247** Status : **Answered**

Chosen Option: 2

Q.15 In a line of 60 students, Mohit is 22nd from the back end. If 7 students are between Mohit and Janhvi who is ahead of Mohit in the line, what is the position number of Janhvi from the front end?

Ans

X 1. 30th

X 2. 32nd

X 3. 29th

4. 31st

Question ID: 5581011275

Status: Answered

Chosen Option: 4

- Q.16 Arrange the following words in the order in which they appear in an English dictionary.
 - 1. Cashier
 - 2. Cassette
 - 3. Cascade
 - 4. Casualty
 - 5. Casually

Ans

1. 3, 1, 2, 5, 4

2. 1, 3, 2, 4, 5

X 3. 3, 1, 2, 4, 5

X 4. 3, 2, 1, 5, 4

Question ID: 5581011255

Status: Answered

Chosen Option: 1

Q.17 Pointing to the photograph of a man, Pranjal said, 'He is my father's brother's father's son'. How is the man related to Pranjal?

Ans

1. Maternal uncle

2. Paternal uncle

3. Brother

X 4. Paternal grandfather

Question ID: 5581011273

Status: Answered

Chosen Option: 2

Q.18 Select the option in which the words share the same relationship as that shared by the given pair of words.

Escalate: soar

Ans

X 1. Heavy : truck

2. Dubious : uncertain

X 3. Time : minute

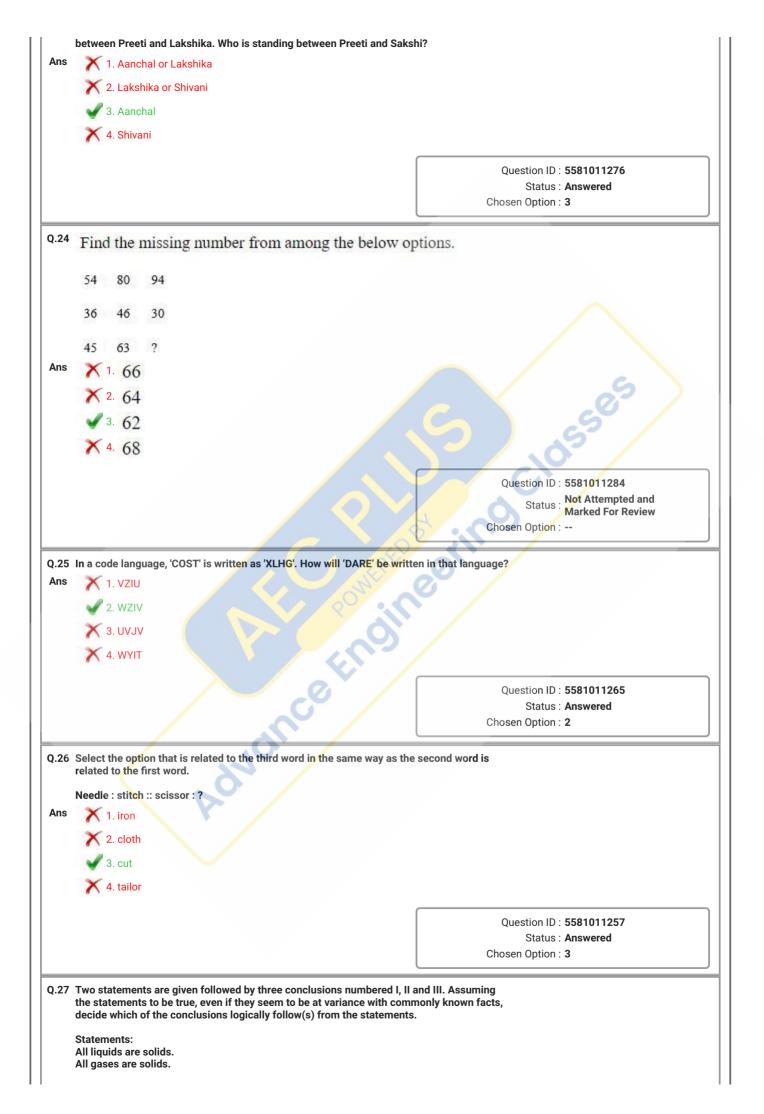
X 4. Anger : jealousy

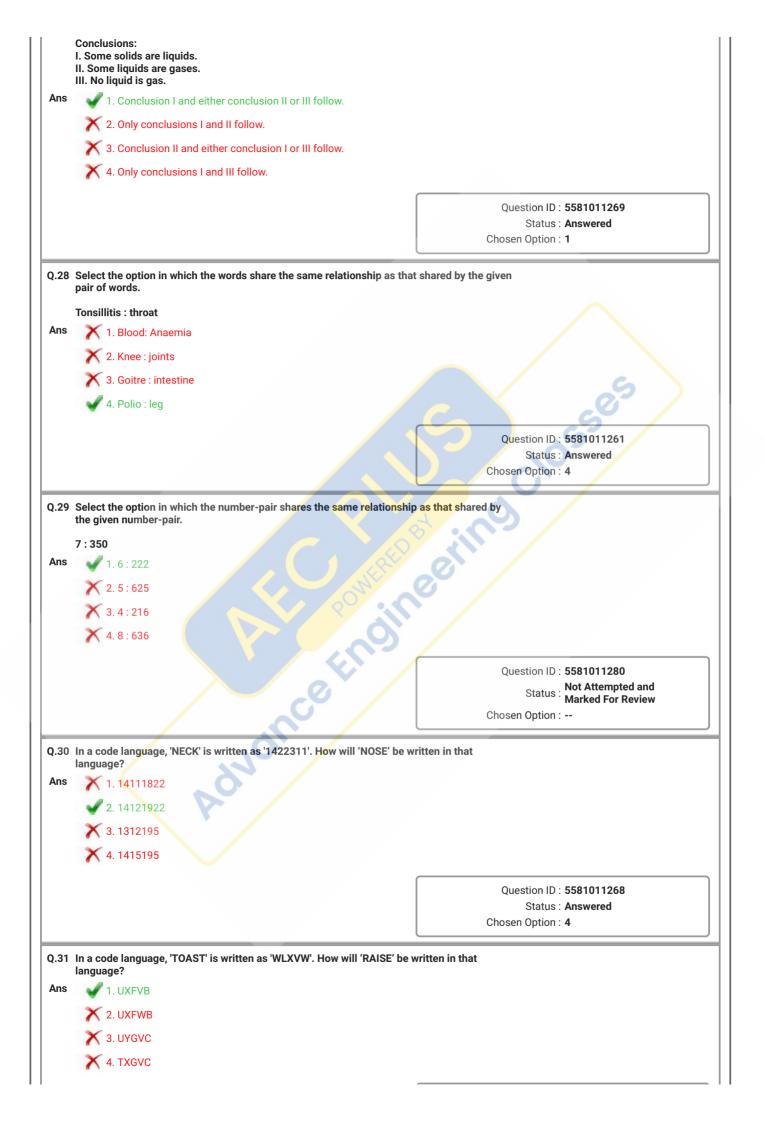
Question ID: 5581011259

Status: Not Answered

Which of the following combination of words is best represented by the given Venn diagram? Ans X 1. Wheat, Fruits, Food × 2. Engineers, Doctors, Lawyers 3. Educated, Doctors, Males X 4. Females, Mothers, Males Ouestion ID: 5581011295 Status: Answered Chosen Option: 3 Q.20 Two statements are given followed by three conclusions numbered I, II and III. Assuming the statements to be true, even if they seem to be at variance with commonly known facts, decide which of the conclusions logically follow(s) from the statements. Statements: No customer is manager. All salesmen are managers. **Conclusions:** I. No salesman is customer. II. Some managers are salesmen. III. Some salesmen are customers. Ans 1. Only conclusion I and II follow. 2. Either conclusion I or III follows. 3. Only conclusion I follows. 4. Only conclusion I and III follow. Question ID: 5581011270 Status: Answered Chosen Option: 1 Q.21 If 'A' stands for 'division', B stands for 'multiplication', C stands for 'subtraction' and D stands for 'addition', then what is the value of the following equation? (109 C 11) D 156 A 39 B 3 (4 D 1) C 27 = ? Ans Question ID: 5581011285 Status: Answered Chosen Option: 4 Q.22 'Gujarat' is related to 'west' in the same way as 'Tamil Nadu' is related to '____'. Ans 4. Chennai Question ID: 5581011258 Status: Answered Chosen Option: 1

Q.23 Six friends are standing in a line facing north. Kamayani is at one of the ends. Aanchal is to the immediate left of Preeti. Sakshi is to the immediate right of Kamayani. Shivani is





Question ID : 5581011266 Status : Answered

Chosen Option: 1

Q.32 Select the correct alternative to indicate the arrangement of the following words in a logical and meaningful order.

- 1. Delhi
- 2. Red Fort
- 3. World
- 4. Asia

5. India

Ans

1. 3, 4, 5, 2, 1



X 3. 2, 1, 5, 3, 4

X 4. 1, 2, 5, 4, 3

Question ID : 5581011253 Status : Answered

Chosen Option: 4

Q.33 Select the option in which the words share the same relationship as that shared by the given pair of words.

Country: border

Ans

🖊 1. Sea : coastline

X 2. Square : rectangle

X 3. Road : highway

X 4. Ship : sail

Question ID : 5581011260 Status : Answered

Chosen Option : 1

Q.34 Select the number that can replace the question mark (?) in the following series.

32, 39, 53, 74, ?

Ans

X 1. 103

2. 104

3. 102

X 4, 105

Question ID: 5581011277

Status: Answered

Chosen Option: 3

Q.35 Select the numbers that can replace the question marks (?) in the following series.

22, 25, 19, 28, 16, 31, ?, ?

Δns

X 1. 15, 35

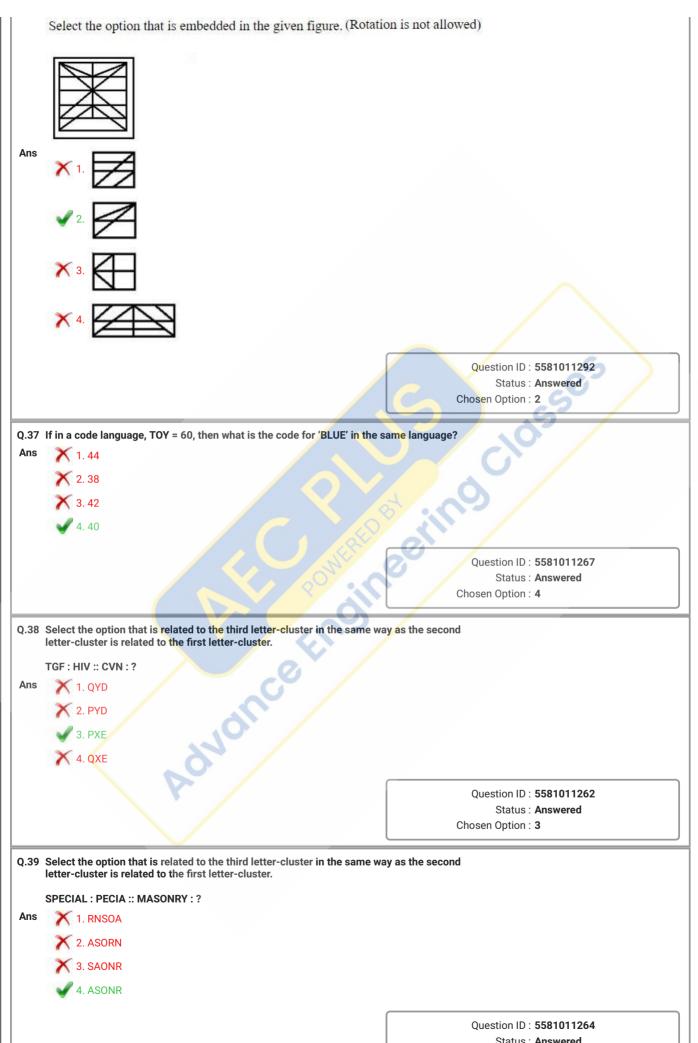
2. 13, 34

X 3. 12, 32

X 4. 14, 33

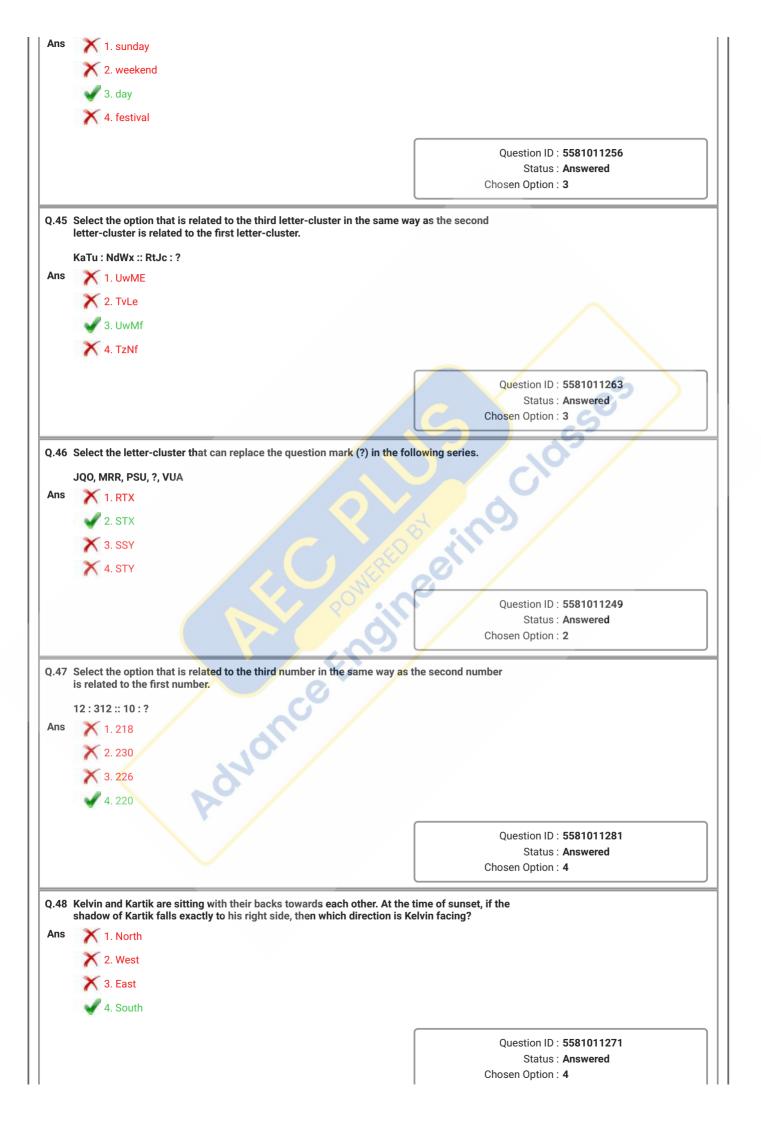
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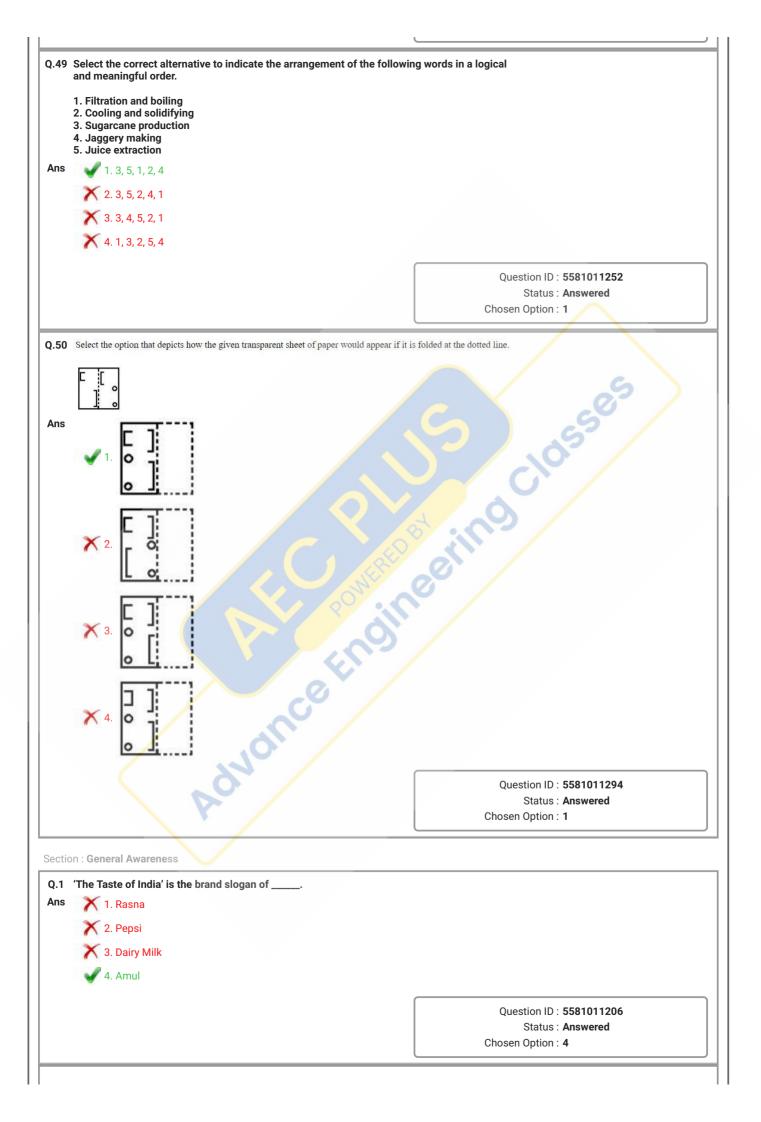
Status: Answered

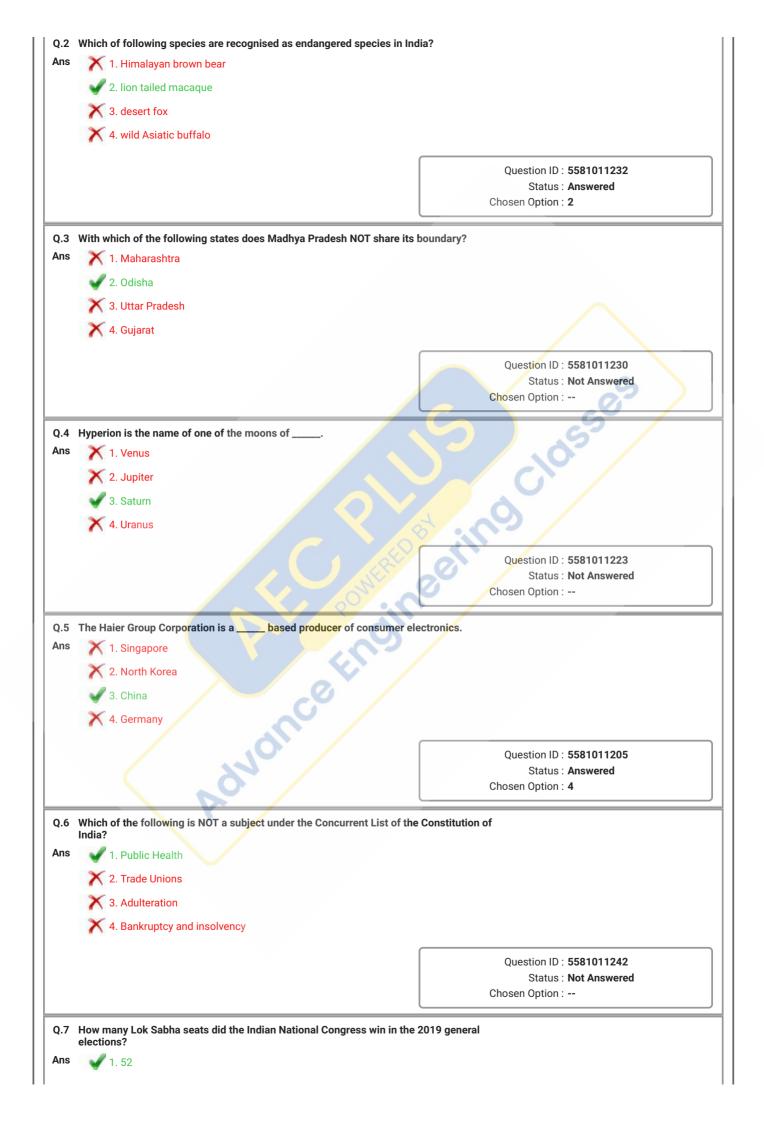


Status: Answered

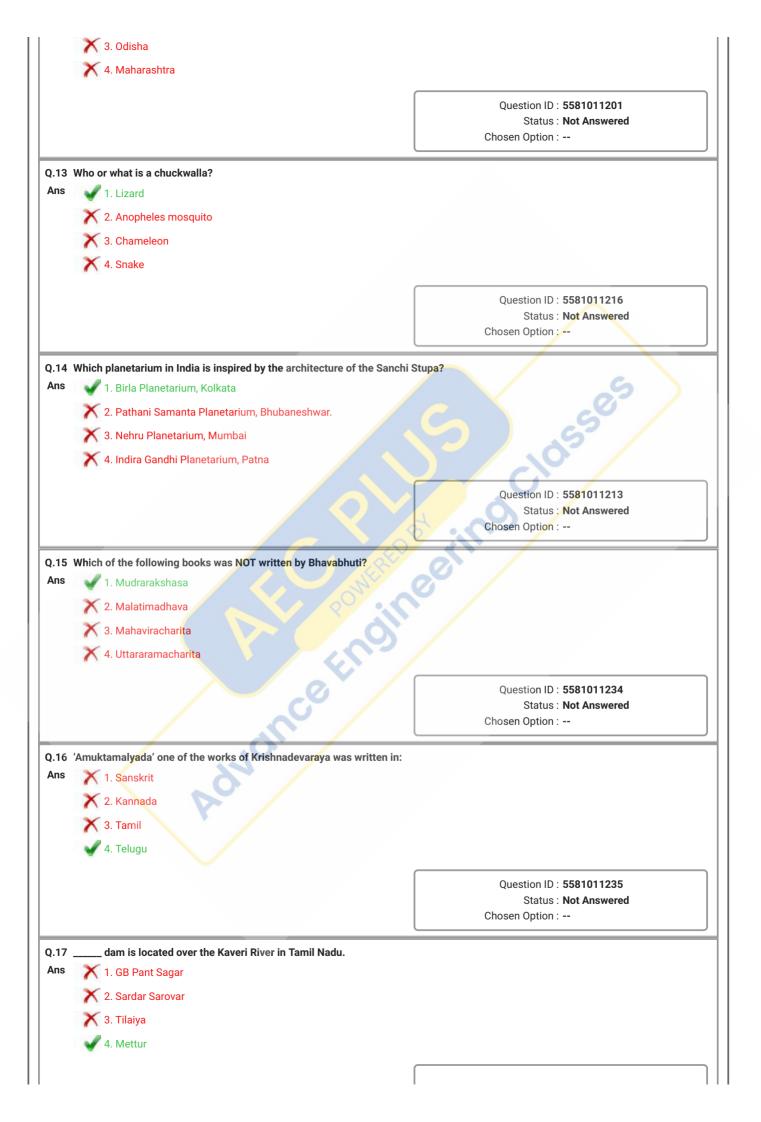
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A2 Select the correct mirror image of the given letter cluster when a mirror is placed on its right side. TRBMNQ 1. QNWBBT 2. QNMBBT 3. QNMBBT 4. QNWBBT Question ID: 5581011293 Status: Answered Chosen Option: 3 A3 Which two signs and two numbers should be interchanged to make the given equation correct? 57+4×17-11÷19=44 The status is a should be interchanged to make the given equation correct? 57+4×17-11÷19=44 The status is a should be interchanged to make the given equation correct? Question ID: 5581011286 Status: Answered			
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2. 57 and 11, ÷ and × 3. 4 and 19, + and - 4. 4 and 19 , + and ÷ Question ID : 5581011286 Status : Answered	ns		
3. 4 and 19, + and - 4. 4 and 19 , + and ÷ Question ID : 5581011286 Status : Answered			
4. 4 and 19 , + and ÷ Question ID : 5581011286 Status : Answered			
Question ID : 5581011286 Status : Answered			
Status : Answered			
			·
	44	'Year' is related to 'month' in the same way as 'week' is related to '	·







a August 2019, who among the following has been appointed adia? 1. Atul Kataria 2. Anil Verma 3. VG Somani 4. Ramesh Shukla ajrappa is the location of a Shaktipeeth as well as the confluent Vera. Which state is it located in?	Question ID : 5581011203 Status : Not Answered Chosen Option : d as Drug Controller General of Question ID : 5581011199 Status : Not Answered
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ajrappa is the location of a Shaktipeeth as well as the conflu	Chosen Option :
ajrappa is the location of a Shaktipeeth as well as the conflu	Chosen option
nd Vera. Which state is it located in?	ence of the rivers Damodar
🗙 1. Odisha	
2. Jharkhand	100
X 3. Bihar	
4. West Bengal	
	Question ID : 5581011226
	Status : Not Answered Chosen Option :
	Chosen Option
/hich of the following was the fi <mark>rst Indian station on the Ant</mark> a	
1. Purva Gangotri	0,
× 2. Paschim Gangotri	
X 3. Uttar Gangotri	
√ 4. Dakshin Gangotri	
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,0,	Question ID : 5581011227 Status : Not Answered
79	Chosen Option :
gainst the Sout <mark>h A</mark> frican governmen <mark>t</mark> 's apartheid policies?	a to play as a mark of protest
X 1. 1972	
2 . 1974	
X 3. 1982	
X 4. 1968	
	2
	Question ID : 5581011246 Status : Not Answered
	Chosen Option :
	A. West Bengal Which of the following was the first Indian station on the Anta 1. Purva Gangotri 2. Paschim Gangotri 3. Uttar Gangotri 4. Dakshin Gangotri 1. 1972 1. 1972 2. 1974 3. 1982



Question ID: 5581011228 Status: Not Answered

Chosen Option: --

Q.18 On 9th December 1946 who chaired the first session of the Constituent Assembly?

Ans

1. Govind Ballabh Pant

2. Sarat Chandra Bose

3. Sachchidananda Sinha

X 4. M Asaf Ali

Question ID: 5581011241 Status: Not Answered

Chosen Option: --

Q.19 In July 2019, who among the following was appointed as the new brand ambassador of fitness and lifestyle brand Reebok?

Ans

X 1. Hritik Roshan

2. Vicky Kaushal

3. Ranbir Singh

4. Varun Dhawan

Question ID: 5581011239 Status: Not Answered

Chosen Option: --

Q.20 Which country was associated with the invention of safety matches?

Ans

X 1. Denmark

2. Switzerland

3. Sweden

4. Netherlands

Question ID: 5581011220 Status: Not Answered

Chosen Option: --

Q.21 On which date is National Science Day observed in India?

X 1. 8th March

2. 15th September

3. 22nd December

4. 28th February

Question ID: 5581011224

Status: Not Answered

Chosen Option: --

Q.22 Who published the first recognisable Periodic Table?

Ans

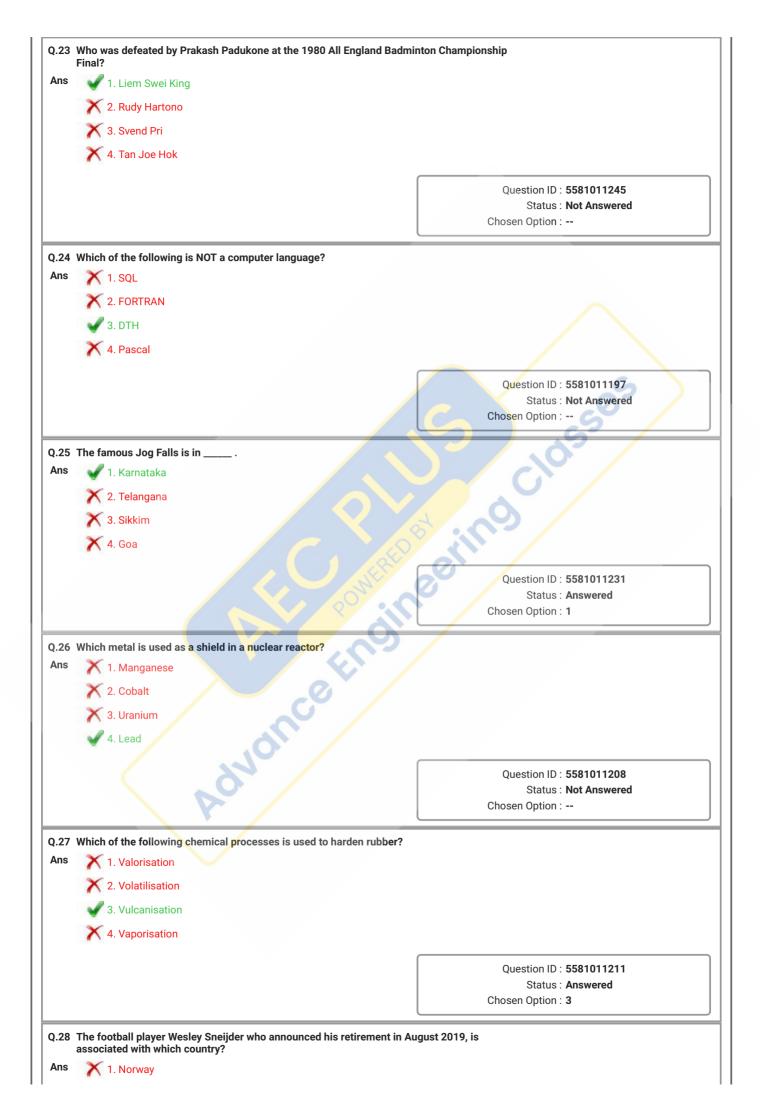
X 1. Wolfgang Pauli

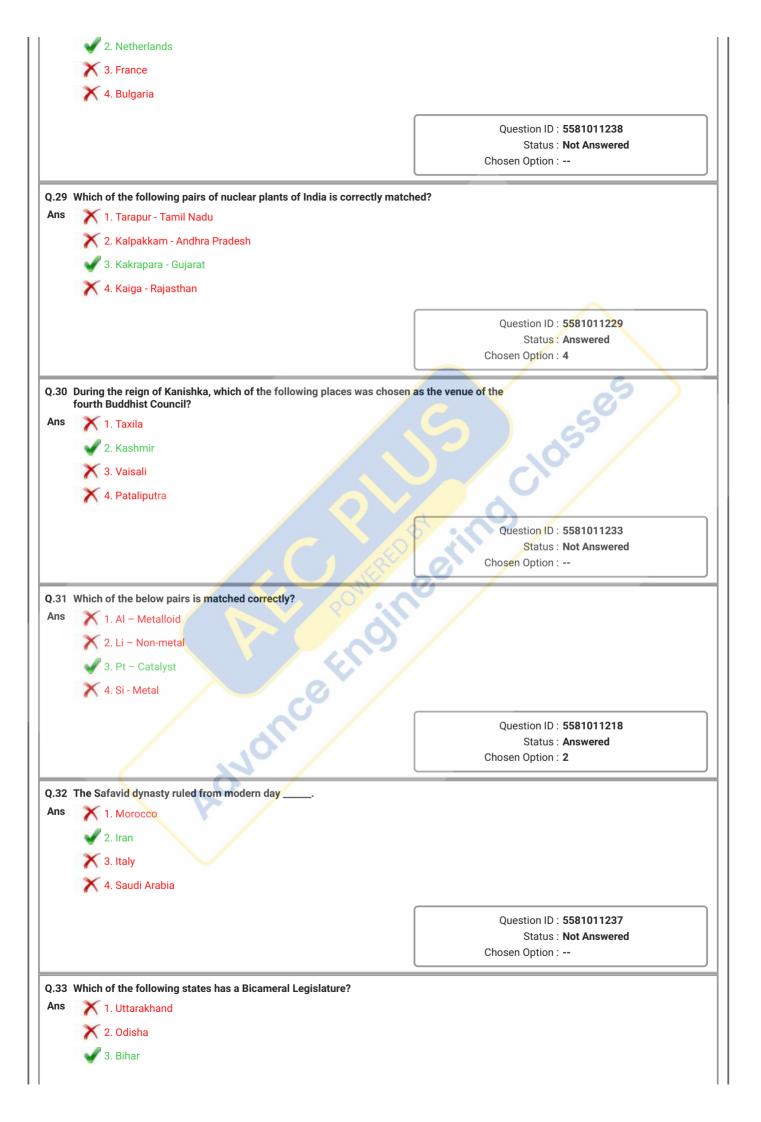
2. Dmitri Mendeleev

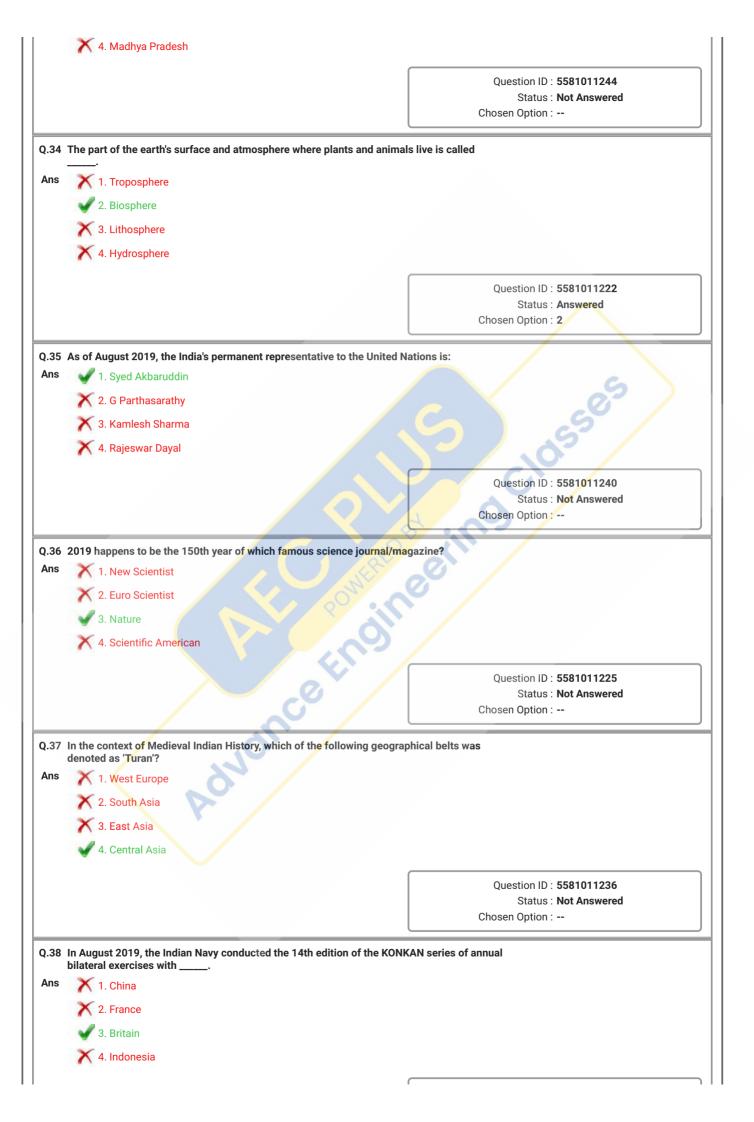
3. John Dalton

X 4. Amadeo Carlos Avagadro

Question ID: 5581011221 Status: Not Answered







Question ID: 5581011200
Status: Not Answered
Chosen Option: -
Question ID: 5581011212
Status: Not Answered
Chosen Option: --

Q.39 In NASA parlance, what is 'EVA'?

Ans

🗙 1. weightlessness

X 2. Zero gravity

3. Spacewalk

X 4. Parking orbit

Q.40 Which of the following is a markup language?

Δne

🖋 1. HTML

X 2. PHP

X 3. Python

X 4. Java

Question ID : 5581011198
Status : Not Answered

Chosen Option: --

Q.41 To whom did Rabindranath Tagore dedicate his collection of essays in science, 'Visva Parichay'?

Ans

X 1. Prof P C Roy

2. Prof Satyendra N Bose

X 3. Prof Sisir Kumar Mitra

X 4. Prof M N Saha

Question ID : **5581011214**Status : **Not Answered**

Chosen Option: --

Q.42 On which day was the 50th anniversary of Apollo-11 moon landing celebrated in 2019?

Δne

X 1. 28th July

X 2. 10th July

3. 20th July

X 4. 18th July

Question ID : **5581011204**Status : **Not Answered**

Chosen Option: --

Q.43 Which of the following has the nickname Daddy long-legs?

Ans

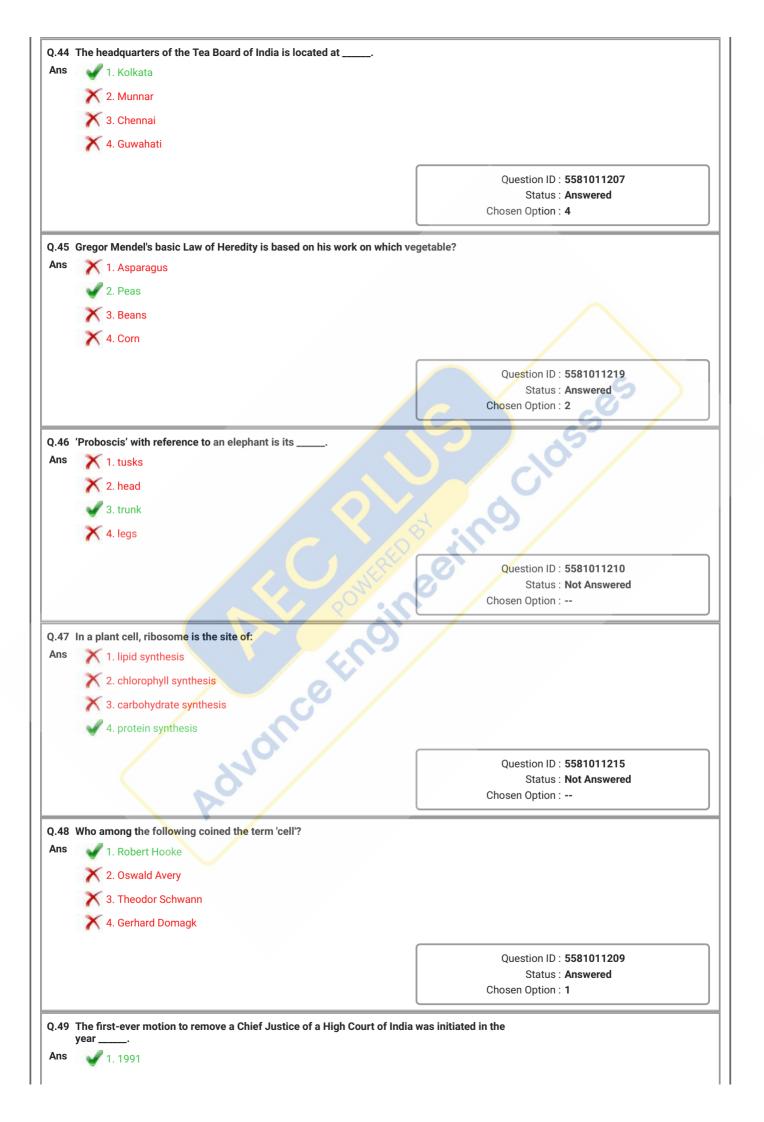
🚺 1. Camel

\chi 2. Grasshopper

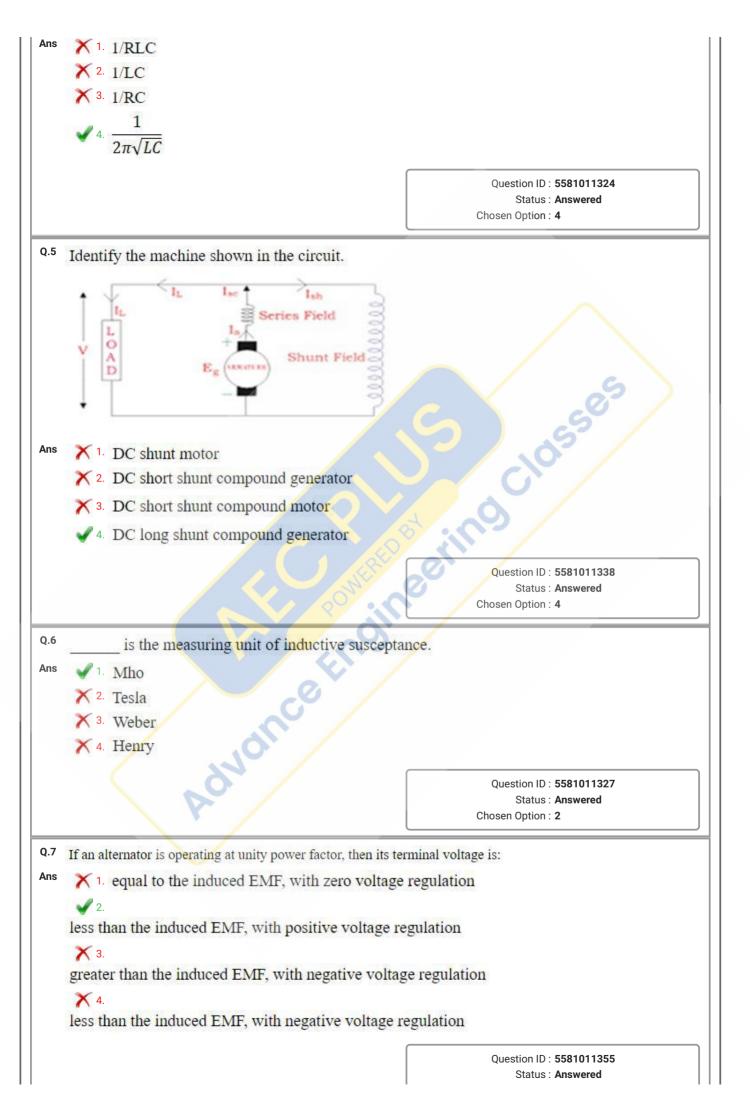
X 3. Ostrich

🎻 4. Cellar spider

Question ID : 5581011217 Status : Not Answered



Question ID: 5581011243 Status: Not Answered Chosen Option: --Q.50 In July 2019 Chandrayaan-2 was launched by which of the following vehicles? Ans 1. GSLV MkIII-M1 2. GSLV MkIII-M2 X 3. GSLV Mkl-M2 X 4. GSLV MkII-M1 Question ID: 5581011202 Status: Not Answered Chosen Option: --Section: Part B General Engineering Electrical Q.1 starting method CANNOT be used for starting a 3-phase squirrel cage induction motor. Ans X 1. Direct-on-line √ 2. Rotor-resistance X 3. Star-delta X 4. Auto-transformer Question ID: 5581011342 Status: Answered Chosen Option: 2 Q.2 For a three layer stranded wire, the number of strands in first, second and third layer respectively are: Ans X 1. 1, 5 and 10 X 2. 1, 7 and 14 √ 3. 1, 6 and 12 X 4. 1, 4 and 8 Question ID: 5581011382 Status: Not Answered Chosen Option: --Which of following lamps employs a bimetallic strip? Ans 1. Fluorescent lamp 2. Sodium vapour lamp X 3. Mercury vapour lamp X 4. Incandescent lamp Question ID: 5581011378 Status: Answered Chosen Option: 1 At f = R - L - C series circuit operates at unity power factor.

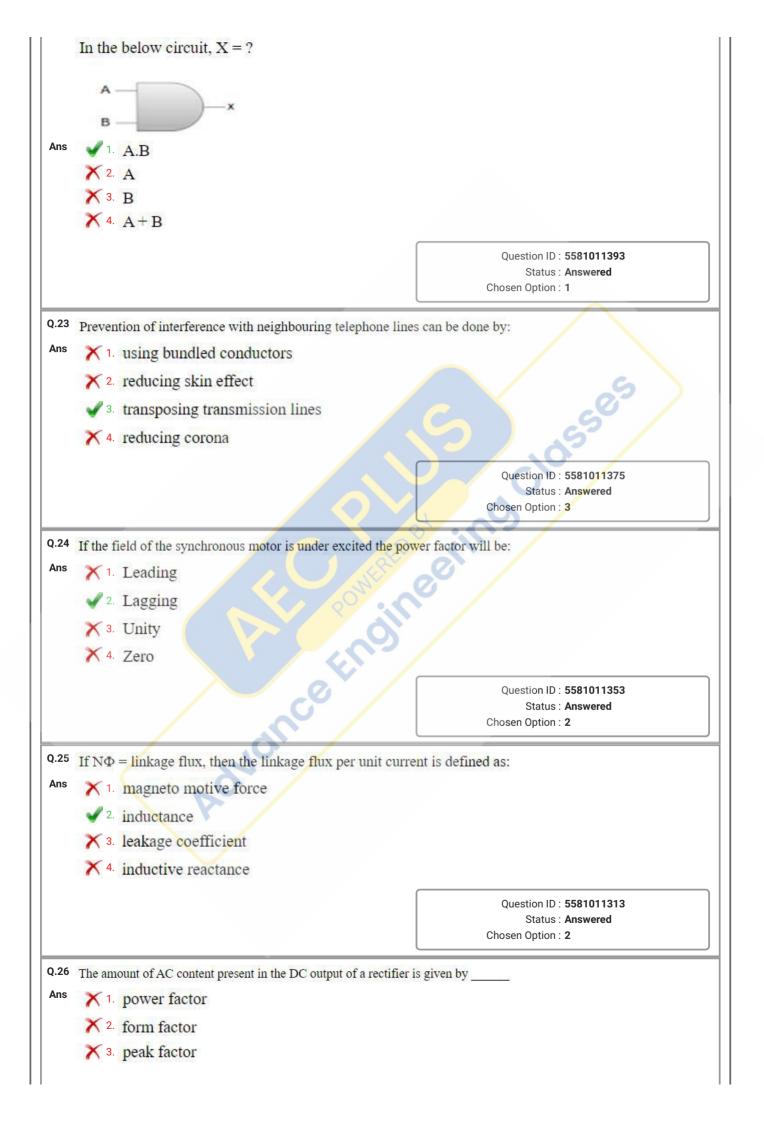


		Chosen Option : 2
Q.8	Is it possible to have current in a transmission line, under no-load conditions?	
Ans	★ 1. Yes, because of corona effect	
	× 2. No, because of proximity effect	
	X 3. Yes, because of skin effect	
	✓ 4. Yes, because of capacitance effect	
		Question ID : 5581011374
		Status : Answered
		Chosen Option : 4
Q.9	Which of the following is the function of the moderator in a	nuclear reactor?
Ans	★ 1. Stopping chain reaction	
	X 2.	
	Transferring the heat produced inside the reactor to the	heat exchanger
	★ 3. Starting chain reaction	60
	√ 4. Controlling chain reaction	555
		Question ID : 5581011362
		Status : Answered Chosen Option : 4
0.10		
Q.10	Two identical coils A and B of 1000 turns each lie in parallel plane such that 80% of the flux with the other. If a current of 5A flowing in A produces a flux of 0.05 mWb, then the flux link	
Ans	✓ 1. 0.04 mWb	
	2. 0.4 mWb	
	X 3. 4 mWb	
	× 4. 0.004 mWb	
	co ^v /	Question ID : 5581011307 Status : Answered
		Chosen Option : 1
Q.11	The function of condenser in Thermal power plant	in
Ans	1. Condense water	15.
	✓ 2. Condense used steam into water	
	X 3. Purify steam	
	× 4. Purify water	
	" I dilly water	
		Question ID : 5581011368 Status : Answered
		Chosen Option : 2
Q.12	The laws involved in the expression	
	2.11. 10.11.01.10.0 in the expression	
	$e = -d\Phi/dt$, are	
Ans	★ 1. Coulomb's and Faraday's laws	
	× 2. Coulomb's and Ampere's laws	

3. Faraday's and Lenz's laws A Faraday's and Ampere's laws Ouestion ID: 5581011310 Status: Answered Chosen Option: 3 Q.13 Three lamps are connected in series across a 120 V supply and take a current of 1.5 A. If the resistance of two of the lamps is 30 Ω , what is the resistance of the third lamp? Ans / 1. 20 Ω Χ 2. 30 Ω Χ 3. 10 Ω × 4. 40 Ω Question ID: 5581011301 Status: Answered Chosen Option: 1 Q.14 If $d\Phi$ is the luminous flux incident normally on an area dA, then Illuminance is given as: \times 1. $\Phi \times A$ \checkmark 2. $\frac{d\Phi}{dA}$ \times 3. $d\Phi - dA$ \times 4. $\frac{dA}{d\Phi}$ Question ID: 5581011388 Status: Answered Chosen Option: 2 Q.15 is used to manufacture stay wire, earth wire, and structural components. Ans 1. Hard drawn copper 2. Galvanised steel X 3. Cadmium copper X 4. Nichrome Question ID: 5581011384 Status: Not Answered Chosen Option: --Q.16 An alternator has 9 slots/pole. What is the value of pitch factor if each coil spans 8 slot pitches. Ans X 1. cos 45° × 2. cos 30° X 3. cos 60° √ 4. cos 10° Question ID: 5581011356 Status: Answered Chosen Option: 4 Q.17 Ratio of average energy demand to maximum demand during a specific period is:

1 Utilization factor

	× 2. Power factor	
	√ 3. Load factor	
	× 4. Form factor	
		Question ID : 5581011380 Status : Not Answered Chosen Option :
Q.18	A shaded pole motor is basically a motor.	
Ans		
	× 2. series	
	× 3. synchronous	
	× 4. shunt	
		Question ID : 5581011347 Status : Answered
		Chosen Option : 1
Q.19	Identify the INCORRECT statement with regards to synchrono	us motors
Ans		notors.
	STATE OF THE STATE	-10.
	2. The armature winding is placed on the stator	0,
	→ 3. It is a constant speed motor 3. It is a constant speed motor	
	★ 4. The field winding is placed on the rotor	
		Question ID : 5581011359 Status : Answered Chosen Option : 1
0.20	A magnetic significational industrial annual that shows a second of 5.4/22. The significance industrial	anne of 2 H than
	A magnetic circuit is applied with a current that changes at a rate of 5 A/sec. The circuit has an induct the self-induced EMF is:	ance of 2 A, then
Ans	X 14 V	
	✓ 210 V	
	X 14 V ✓ 210 V X 32.5 V X 4. 0.4 V	
	4. 0.4 V	
	83	Question ID : 5581011311
	A	Status : Answered Chosen Option : 2
Q.21	Direction of the amount proposed the direction of the second the P. L. C.	urvoud bissad
Ans		nward diased.
	N-type material	
	× 2. P-type material	
	✓ 3. Conventional current flow	
	× 4. P-N Junction	
		Question ID : 5581011394 Status : Answered Chosen Option : 3
Q.22		



4. ripple factor

Question ID : 5581011395 Status : Answered

Chosen Option: 4

If admittance Y = a + jb, then a = ?

Ans

- X 1. Resistance
- X 2. Susceptance
- X 3. Reactance
- 4. Conductance

Question ID : 5581011320 Status : Answered Chosen Option : 4

Q.28 The average value of a sinusoidal waves is:

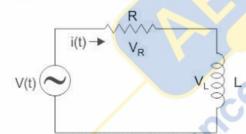
Ans

- X 1. 2 × maximum value
- × 2. 0.5 × maximum value
- \times 3. $\sqrt{2}$ × maximum value
- √ 4. 0.637 × maximum value

Question ID : 5581011322 Status : Answered

Chosen Option: 4

Q.29 In the circuit shown, if R = 0, then the phase angle between v(t) and i(t) is:



Ans

- X 1. 30°
- X 2. 60°
- 3. on
- X 4. 0°

Question ID: 5581011325 Status: Answered

Chosen Option : 3

Q.30 Split-phase, capacitor and shaded-pole single-phase motors classified as:

Ans

- √ 1. 1-phase induction motors
- 2. Un-excited synchronous motors
- X 3. A.C. series motors
- X 4. Repulsion motors

Question ID: 5581011352

Status : Answered

Chosen Option: 1

Q.31 'H = ____' is the expression for magnetic field due to an infinite linear current carrying conductor.

Ans

$$\times$$
 1. $\frac{I}{2r}$ A/m

$$\times$$
 2. $\frac{\mu I}{2r}$ A/m

$$\times$$
 3. $\frac{\mu I}{2\Pi r}$ A/m

√ 4.
$$\frac{1}{2\Pi r}$$
 A/m

Question ID : 5581011312 Status : Not Answered

Chosen Option: --

Q.32 Let T be the net torque developed by the rotor runs at ω rad/s. What is the mechanical power developed?

Ans

$$X$$
 1. $P_{mech} = \frac{2\pi\omega}{60}T$

$$\times$$
 2. $P_{mech} = 2\pi\omega T$

$$ightharpoonup$$
 3. $P_{mech}=rac{\omega}{60}T$

$$\checkmark$$
 4. $P_{mech} = \omega T$

Question ID: 5581011345

Status : Answered

Chosen Option: 4

Q.33 In an AC network, the load connected is (10 + j10). The phase relation between the voltage applied and the current through the load is:

Ans

- ★ 1. voltage lags current by 30°
- × 2. voltage and current are in phase with each other
- ✓ 3. voltage leads current by 45°
- X 4. voltage lags current by 45°

Question ID: 5581011323

Status : **Answered**

Chosen Option: 3

Q.34 opposes the change in circuit voltage.

Ans

- Inductance
- X 2. Resistance
- 3. Capacitance
- X 4. Inductive reactance

Question ID: 5581011326

Status : Answered

X 1. Nichrome X 2. Kanthal X 3. Steel 4. Eureka Question ID: 5581011387 Status: Answered Chosen Option: 1 Q.36 Which of the following lamps has shortest/less life span in working hours? Incandescent lamp × 2. Sodium vapour lamp X 3. Mercury vapour lamp X 4. Fluorescent lamp Question ID: 5581011377 Status: Answered Chosen Option: 1 Q.37 In transmission line, the voltage regulation is negative whenever receiving end voltage V_R 1. Equal to the sending end voltage 2. Greater than the sending end voltage X 3. Less than the sending end voltage 4. Half of the sending end voltage Question ID: 5581011370 Status: Answered Chosen Option: 2 Q.38 motor is referred to as a universal motor? X 1. Single phase induction Ans × 2. Synchronous √ 3. Series X 4. Shunt Question ID: 5581011346 Status: Answered Chosen Option: 3 Q.39 Two bulbs of rating 230 V, 60 W and 230 V, 100 W are connected in parallel across supply mains. Identify the correct Ans 1. The 60 W bulb will glow brighter × 2. Both will glow equally bright X 3. Neither bulb will glow ✓ 4. The 100 W bulb will glow brighter Question ID: 5581011299 Status: Answered

	× 1. 0.3	
	✓ 2. 1	
	X 3. 0	
	× 4. 0.8	
	. 0.8	
		Question ID : 5581011330
		Status : Answered Chosen Option : 2
		Siloson option. 2
41	Annual load factor of a generation station is equ	al to
ns	No of units actually supplied/month	
	1. No of units actually supplied/month max.possible demand	
	2. No of units actually supplied/month max.possible demand×8760	
	3. No of units actually supplied/year max.possible demand	9
		~ CO"
	4. No of units actually supplied/year max.possible demand×8760	65
	man possible administration of	
		Question ID : 5581011381
		Question ID : 5581011381 Status : Answered Chosen Option : 4
	What would the total loss of the 2kVA transformer corresponding to provided the transformer has iron loss of 150 W and full-load coppe 1. 100 W	Status : Answered Chosen Option : 4 maximum efficiency be,
	provided the transformer has iron loss of 150 W and full-load coppe	Status : Answered Chosen Option : 4 maximum efficiency be,
uns	provided the transformer has iron loss of 150 W and full-load copped 1. 100 W 2. 500 W 3. 300 W 4. 400 W	Status : Answered Chosen Option : 4 Promaximum efficiency be, Proceedings of 250 W? Question ID : 5581011340 Status : Answered Chosen Option : 3
Ans	provided the transformer has iron loss of 150 W and full-load copped 1. 100 W 2. 500 W 3. 300 W 4. 400 W	Status: Answered Chosen Option: 4 Promaximum efficiency be, Par loss of 250 W? Question ID: 5581011340 Status: Answered Chosen Option: 3
Ans	provided the transformer has iron loss of 150 W and full-load copped 1. 100 W 2. 500 W 3. 300 W 4. 400 W	Status: Answered Chosen Option: 4 Paramaximum efficiency be, Paramaximum e
Ans	provided the transformer has iron loss of 150 W and full-load copped 1. 100 W 2. 500 W 3. 300 W 4. 400 W	Status: Answered Chosen Option: 4 Promaximum efficiency be, Par loss of 250 W? Question ID: 5581011340 Status: Answered Chosen Option: 3
Ans	provided the transformer has iron loss of 150 W and full-load copped 1. 100 W 2. 500 W 3. 300 W 4. 400 W	Status : Answered Chosen Option : 4 Promaximum efficiency be, Proceedings of 250 W? Question ID : 5581011340 Status : Answered Chosen Option : 3
.43	provided the transformer has iron loss of 150 W and full-load copped 1. 100 W 2. 500 W 3. 300 W 4. 400 W	Status: Answered Chosen Option: 4 Promaximum efficiency be, Par loss of 250 W? Question ID: 5581011340 Status: Answered Chosen Option: 3
.43	provided the transformer has iron loss of 150 W and full-load copped 1. 100 W 2. 500 W 3. 300 W 4. 400 W The below symbol which is used in single line diagram.	Status: Answered Chosen Option: 4 Promaximum efficiency be, Par loss of 250 W? Question ID: 5581011340 Status: Answered Chosen Option: 3
Ans	provided the transformer has iron loss of 150 W and full-load copped 1. 100 W 2. 500 W 3. 300 W 4. 400 W The below symbol which is used in single line diagram 1. current transformer 2. potential transformer	Status: Answered Chosen Option: 4 Promaximum efficiency be, Par loss of 250 W? Question ID: 5581011340 Status: Answered Chosen Option: 3
Ans 9.43	provided the transformer has iron loss of 150 W and full-load copped 1. 100 W 2. 500 W 3. 300 W 4. 400 W 1. current transformer 2. potential transformer 3. circuit breaker	Status: Answered Chosen Option: 4 Promaximum efficiency be, Proceedings of 250 W? Question ID: 5581011340 Status: Answered Chosen Option: 3
Ans	provided the transformer has iron loss of 150 W and full-load copped 1. 100 W 2. 500 W 3. 300 W 4. 400 W The below symbol which is used in single line diagram 1. current transformer 2. potential transformer	Status : Answered Chosen Option : 4 Promaximum efficiency be, Proceedings of 250 W? Question ID : 5581011340 Status : Answered Chosen Option : 3
Q.42 Ans	provided the transformer has iron loss of 150 W and full-load copped 1. 100 W 2. 500 W 3. 300 W 4. 400 W 1. current transformer 2. potential transformer 3. circuit breaker	Status: Answered Chosen Option: 4 Promaximum efficiency be, Proceedings of 250 W? Question ID: 5581011340 Status: Answered Chosen Option: 3
Ans	provided the transformer has iron loss of 150 W and full-load copped 1. 100 W 2. 500 W 3. 300 W 4. 400 W 1. current transformer 2. potential transformer 3. circuit breaker	Chosen Option : 4 O maximum efficiency be, Par loss of 250 W? Question ID : 5581011340 Status : Answered Chosen Option : 3 Description of the content of

Ans

- X 1. wattmeter alone
- ✓ 2. combination of a voltmeter, ammeter and wattmeter
- X 3. combination of a voltmeter and ammeter
- X 4. energy meter alone

Question ID: 5581011333

Status: Answered

Chosen Option: 2

Q.45 When the supply to the excitation fails, the synchronous generator acts like a/an:

Ans

- 1. synchronous motor
- 2. induction generator
- X 3. induction motor
- X 4. synchronous generator

Question ID : 5581011360 Status : Answered Chosen Option : 2

Q.46 Which of the following is the correct relation regarding coupled coils?

Ans

- \times 1. M = (L₁-L₂)/2
- \times 2. M = $(L_1+L_2)/2$
- $\sqrt{3}$ M $\leq (L_1 L_2)^{0.5}$
- \times 4. M > $(L_1L_2)^{0.5}$

Question ID : 5581011314 Status : Answered

Chosen Option : 3

Q.47 In a capacitor start single phase induction motor the current in the:

An

- 1. starting winding leads the voltage
- 2. supply lines leads the voltage
- X 3 main winding leads the voltage
- 4. starting winding lags the voltage

Question ID : 5581011348
Status : Answered
Chosen Option : 1

Q.48 P = QHg is the water power equation. Head 'H' is measured in meter, 'g' gravity constant is measured in meter/second square, then the measuring unit of 'Q', flow rate of water is:

Ans

- 1 Metre per hour
- 2. Square metre per second
- ✓ 3. Cubic metre per second
- X 4. Metre per second

Question ID: 5581011364
Status: Not Attempted and

Chosen Option: --

Q.49 Extension of moving iron ammeter range can be done by using

Ans

- X 1. Inductor
- X 2. Multiplier
- X 3. Capacitor
- 4. Shunt

Question ID: 5581011335

Status: Answered

Chosen Option: 4

Q.50 What is the reason behind using a centrifugal switch in a single phase induction motor?

Ans

- X 1. To improve the starting performance of the motor
- × 2. To protect the motor from overloading
- ★ 3. To cut in the capacitor during running conditions
- 4. To cut-off the starting winding at an appropriate instant

Question ID: 5581011349 Status: Answered

Chosen Option: 4

Q.51 The resistive component of the rotor with resistance R_2 offered to the backward rotating flux wave in a single-phase dince Enginee motor runs with slip s is given as

Ans

- \times 3. $\frac{R_2}{1-s}$
- \times 4. $\frac{R_2}{s}$

Question ID: 5581011351

Status: Answered Chosen Option: 2

 $\textbf{Q.52} \quad A \ coil \ is \ wound \ with \ 50 \ turns \ and \ a \ current \ of \ 8 \ A \ produces \ a \ flux \ of \ 200 \ \mu Wb. \ Calculate \ the \ inductance \ of \ the \ coil.$

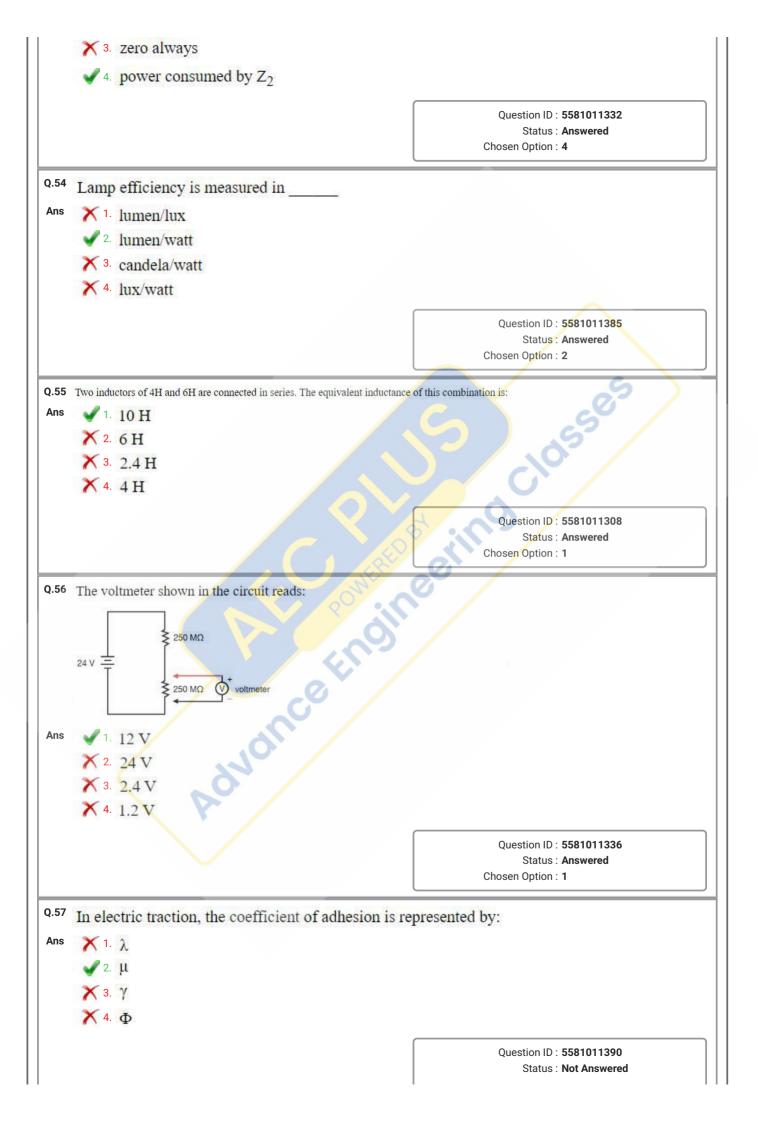
- X 1. 0.125 mH
- X 2. 0.25 mH
- √ 3. 1.25 mH
- X 4. 2.5 mH

Question ID: 5581011306 Status: Answered

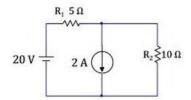
Chosen Option: 3

Q.53 Z₁ and Z₂ are connected in series to form a load. A wattmeter's current coil is connected in series with the load, whereas its pressure coil is connected across Z₂. The wattmeter reads:

- ★ 1. power consumed by Z₁
- 2. power consumed by Z₁ and Z₂



Q.58 When only current source is active in the circuit, find the current through the 10 Ω resistor.



Ans

√ 1. 0.66 A

X 2. 1.33 A

X 3. 0 A

X 4. 1.66 A

Question ID : 5581011305 Status : Answered

Chosen Option: 1

Q.59 Identify the important feature of a DC series motor.

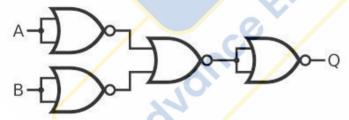
Ans

- X 1. Medium starting torque
- ✓ 2. High starting torque
- X 3. Low starting torque
- X 4. Zero starting torque

Question ID : 5581011337 Status : Answered

Chosen Option: 2

Q.60 The output of logic circuit given below represents _____ gate.



Ans

1. NAND

X 2. NOR

X 3. AND

X 4. OR

Question ID: 5581011392

Status: Answered

Chosen Option: 1

Q.61 The meter constant of an energy meter will be given in:

Ans

X 1. Revolutions/kW

× 2. kWh/Revolutions

X 3. kW/Revolutions

4. Revolutions/kWh

Question ID : 5581011329 Status : Answered thosen Option : 4

		Chosen Option : 4
Q.62	In the speed-time curve of a train, speed in and time in _	are plotted.
Ans	X 1. km/s; hour	- Authority - Georgia estimate
	√ 2. km/h; sec	
	× 3. km/h; hour	
	× 4. km/s; sec	
	Mil 5, 5ee	
		Question ID : 5581011389 Status : Answered
		Chosen Option : 2
0.63	A 200 V d.c machine has $R_a=0.5~\Omega$ and its full-load I_a =20 A. Determine the induced e.m.	f when the machine acts as
	motor.	a viter the interior details
Ans	X 1. 200 V	9
	X 2. 215 V	60
	X 3. 210 V ✓ 4. 190 V	155
	4. 190 V	
		Question ID : 5581011341 Status : Answered
		Chosen Option: 4
0.64	Find the net capacitance of the combination in which ten capacitors of 10 μF are	a connected in parallal
Ans	1 nd the net capacitance of the combination in which can capacitors of 10 μr and 1. 1 μF	connected in paramet.
	× 2. 0.1 μF	
	✓ 3. 100 μF	
	× 4. 50 μF	
	Α . 30 μι	
		Question ID : 5581011297 Status : Answered
		Chosen Option: 3
0.65	Find H =A/m at the center of a circular coil of diameter 1 m and care	ging a guyeant of 2 A
Ans	1. 0.1636	ying a current of 2 A.
	× 2. 6.366	
	× 3. 1.636	
	√ 4. 0.6366	
		Question ID : 5581011309
		Status : Answered
		Chosen Option : 4
Q.66	Relate 'Reluctance' with the following:	
Ans	✓ 1. A/Weber	
	× 2. Weber/A	
	× 3. A/m	
	X 4. Weber/m	

Ouestion ID: 5581011319 Status: Answered

Chosen Option: 1

Q.67 If the copper loss of a transformer at half full load is 400 W, then the copper loss corresponding to full load is:

- ✓ 1. 1600 W
- X 2. 800 W
- X 3. 1200 W
- X 4. 400 W

Ouestion ID: 5581011339 Status: Answered Chosen Option: 1

Q.68 A synchronous motor runs at 600 rpm, which of the following case is true?

- \checkmark 1. P = 12, f = 60 Hz
- \times 2. P = 8, f = 50 Hz
- \times 3. P = 12, f = 50 Hz
- \times 4. P = 10, f = 60 Hz

Question ID: 5581011354 Status: Answered Chosen Option: 1

Hysteresis loss is NOT a function of

Ans

- X 1. frequency
- ✓ 2. ambient temperature
- X 3. Steinmetz co-efficient of a material
- X 4. volume of a material

Ouestion ID: 5581011316 Status: Answered Chosen Option: 2

Q.70 An electric motor in which both the rotor and stator fields rotate with same speed is called

Ans

- X 1. Induction motor
- X 2. Universal motor
- ✓ 3. Synchronous motor
- X 4. DC motor

Question ID: 5581011357 Status: Answered Chosen Option: 3

Q.71 Hunting occurs in a/an ____ motor.

- Ans X 1. DC series
 - X 2. DC shunt
 - 3. synchronous
 - X 4. induction

Question ID : **5581011358** Status : **Answered**

Chosen Option: 3

Q.72 Two coupled coils with $L_1 = L_2 = 0.5$ H have a coupling coefficient of K = 0.75. The turn ratio $N_1/N_2 = ?$

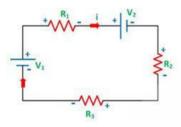
Ans

- X 1. 2
- **2**. 1
- X 3. 0.5
- X 4. 4

Question ID : **5581011315**Status : **Not Answered**

Chosen Option : --

Q.73 With the current direction marked in the circuit shown, the net voltage applied is:



Ans

- X 1. V2-V1
- √ 2. (V₂-V₁)
- X 3. V₂
- × 4. V₁

Question ID: 5581011302 Status: Answered

Chosen Option : 2

Q.74 4F2D is a/an _____number.

Ans

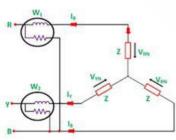
- X 1. octal
- × 2. binary
- √ 3. hexadecimal
- X 4. decimal

Question ID: 5581011391

Status: Answered

Chosen Option: 3

Q.75 In the circuit shown, the pressure coils of two wattmeters are connected to:



Ans



X 3. neutral wire Question ID: 5581011331 Status: Answered Chosen Option: 1 Q.76 In a single-phase capacitor start-and-run motor, the minimum number of capacitors to be used in it is: Ans X 3. 3 Ouestion ID: 5581011350 Status: Answered Chosen Option: 1 Q.77 In the full-wave rectifier circuit shown in the figure, the diodes that conduct when positive half wave of AC signal applied are: Ans ✓ 1. D₁, D₂ X 2. D2, D3 X 3. D₃, D₄ X 4. D₄, D₁ Ouestion ID: 5581011396 Status: Answered Chosen Option: 1 Q.78 Which of the following plants experiences chain reactions? X 1. Hydro-electric power plant ✓ 2. Nuclear power plant X 3. Thermal power plant X 4. Gas power plant Question ID: 5581011367 Status: Answered Chosen Option: 2 Q.79 power plant is the plant which uses non-conventional source of energy. X 1. Thermal Ans 2. Wind X 3. Hydroelectric X 4. Nuclear

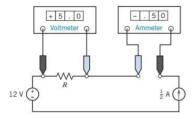
X 2. Y

Ouestion ID: 5581011366 Status: Answered Chosen Option: 2 Q.80 is a tube that brings water to turbines. Ans X 1. Trash rack X 2. Spillway Penstock X 4. Forebay Ouestion ID: 5581011363 Status: Answered Chosen Option: 3 Q.81 Which of the following fuel has least calorific value? X 1. Kerosene oil × 2. Hydrogen X 3. LPG √ 4. Wood Question ID: 5581011361 Status: Answered Chosen Option: 4 Q.82 The cheap and temporary system of internal wiring is? Ans ✓ 1. Cleat wiring X 2. Casing-capping X 3. CTS or TRS wiring X 4. Conduit wiring Question ID: 5581011379 Status: Not Answered Chosen Option: --Q.83 Which of the following should be used under no-load conditions? Ans X 1. Rewireable fuse X 2. Circuit breaker X 3. Air-break switch 4. Isolator Ouestion ID: 5581011372 Status: Answered Chosen Option: 4 Q.84 An electric heater is connected across 230 V and it draws a current of 2 A. Then the resistance offered by the heater is? Ans X 1. 11.5 ohm X 2. 23 ohm × 3. 230 ohm 4. 115 ohm

Ouestion ID: 5581011300 Status: Answered

Chosen Option: 4

Q.85 Based on the voltmeter and ammeter readings in the measuring network, determine the value of the resistor R.



- 1. 10 ohm
- X 2. 2 ohm
- X 3. 1 ohm
- X 4. 5 ohm

Question ID: 5581011334 Status: Answered

Chosen Option: 1

Q.86 The skin effect does not depends upon:

Ans

- X 1. Shape of the conductor
- ✓ 2. Operating voltage
- X 3. Diameter of the conductor
- X 4. Frequency

Ouestion ID: 5581011369 Status: Answered

Chosen Option: 2

Q.87 A three phase induction machine, when it is operating like a motor, the range of slip 's' is given by:

- \times 1. 1 < s < 2
- \times 2. 0 > s > -1
- \times 3. -1 > s > -2 \checkmark 4. 0 < s < 1

Question ID: 5581011344

Status: Answered

Chosen Option: 4

Q.88 Find the frequency of rotor induced EMF of a 3-phase, 440 V, 50 Hz induction motor having slip of 10%.

Ans

- X 1. 25 Hz
- X 2. 2.5 Hz
- X 3. 50 Hz
- ✓ 4. 5 Hz

Question ID: 5581011343 Status: Answered

X 1. 8 H ✓ 2. 4 H X 3. 16 H X 4. 2 H Question ID: 5581011318 Status: Answered Chosen Option: 2 In the circuit shown, find the equivalent resistance between A and B. R5 ≤ 50 Ans 1. 75 ohm X 2. 150 ohm X 3. 100 ohm X 4. 50 ohm Question ID: 5581011298 Status: Answered Chosen Option: 1 Q.91 The law that explains about the economic size of a conductor is: X 1. Lambert's law X 2. Newton's law √ 3. Kelvin's law X 4. Faraday's law Question ID: 5581011376 Status: Answered Chosen Option: 1 Q.92 is NOT a component in a thermal power plant. Ans X 1. Chimney X 2. Boiler √ 3. Reactor X 4. Economiser Question ID: 5581011365 Status: Answered Chosen Option: 3 $\textbf{Q.93} \quad \text{If an AC circuit is supplied with an active power of 500 W and reactive power 500 VAR, then the load power factor of 500 W and reactive power 500 VAR, then the load power factor of 500 W and reactive power 500 VAR, then the load power factor of 500 W and reactive power 500 VAR, then the load power factor of 500 W and reactive power 500 VAR, then the load power factor of 500 W and reactive power 500 VAR, then the load power factor of 500 W and reactive power 500 VAR, then the load power factor of 500 W and reactive power 500 VAR, then the load power factor of 500 W and reactive power 500 VAR, then the load power factor of 500 W and reactive power 500 VAR, then the load power factor of 500 W and reactive power 500 VAR, then the load power factor of 500 W and reactive power 500 VAR, then the load power factor of 500 W and reactive power 500 VAR, then the load power factor of 500 W and reactive power 500 VAR, then the load power factor of 500 W and reactive power 500 VAR, then the load power factor of 500 W and reactive power 500 VAR, then the load power factor of 500 W and reactive power 500 VAR, then the load power 500 VAR and the load power 500 VAR an$ Ans $\times 1.1/\sqrt{2}$

Question ID : 5581011321

Status : **Answered**

Chosen Option: 1

Q.94 Power factor of an A.C. circuit is equal to

Ans

- $\sqrt{1. \frac{R}{Z}}$
- \times 2. $\frac{R}{X_C}$
- X 3. $\frac{Z}{R}$
- \times 4. $\frac{R}{X_L}$

Question ID : 5581011328 Status : Answered Chosen Option : 1

Q.95 Which of the following losses is together called iron losses?

Ans

- ✓ 1. Eddy current loss and hysteresis loss
- × 2. Hysteresis loss and copper loss
- X 3. Hysteresis loss and frictional loss
- X 4. Eddy current loss and frictional loss

Question ID : 5581011317 Status : Answered

Chosen Option: 1

Q.96 reflected light incident light

Ans

- √ 1. reflection factor
- X 2. maintenance factor
- X 3. waste light factor
- X 4. absorption factor

Question ID : 5581011386 Status : Answered

Chosen Option : 1

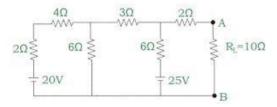
Q.97 'The ratio of conductor voltage and the voltage across the disc nearest to the conductor multiplied by number discs' is defined as:

Ans

- 1 insulator efficiency
- √ 2. string efficiency
- X 3. disc efficiency
- X 4. transmission line efficiency

Question ID : 5581011371 Status : Answered

 $^{Q.98}$ The Thevenin's resistance as seen through the terminals A and B is:



Ans

√ 1. 5 Ω

Χ 2. 7 Ω

X 3. 4Ω

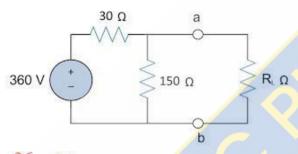
× 4. 6 Ω

Question ID: 5581011303

Status: Answered

Chosen Option: 1

Q.99 The Norton's current in the circuit shown below is:



Ans X 1. 4 A

✓ 2. 12 A

X 3. 120 A

X 4. 2 A

Question ID: 5581011304

Status: Answered

Chosen Option: 2

Q.100 Which of the following voltage range is used in medium transmission lines?

X 1 More than 200 kV

✓ 2. 20 kV to 100 kV

X 3. 50 kV to 200 kV

X 4. Less than 20 kV

Question ID: 5581011373

Status: Answered