



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

NRTS-I Regional Head Quarters, SCO Bay No.5-10, Sector-16A, Faridabad - 121 002 E-mail- nr1recruitment@powergrid.co.in

Participant ID	
Participant Name	
Test Center Name	
Test Date	13/08/2021
Test Time	5:30 PM - 7:30 PM
Subject	DIPLOMA TRAINEE (ELECTRICAL)

Section : General English

Q.1 Four words are given, out of which only one word is spelt correctly correctly spelt word.	y. Choose the
Ans X A. eloqunce	
B. elloqunce	
C. eloquence	
D. elloquence	
	Question ID : 481843879
	Status : Not Answered
	Chosen Option :
<ul> <li>Q.2 Some parts of a sentence have been jumbled up, and labelled P, Q option that gives the correct sequence in which these parts can be a meaningful and grammatically correct sentence.</li> <li>The tendency then to</li> <li>P. recurrent and may</li> <li>Q. invention of verbal nouns is</li> <li>R. mark new findings through</li> <li>S. elicit the criticism of</li> <li>jargon-infested prose.</li> <li>Ans</li></ul>	Question ID : 481843888 Status : Not Answered
	Chosen Option :

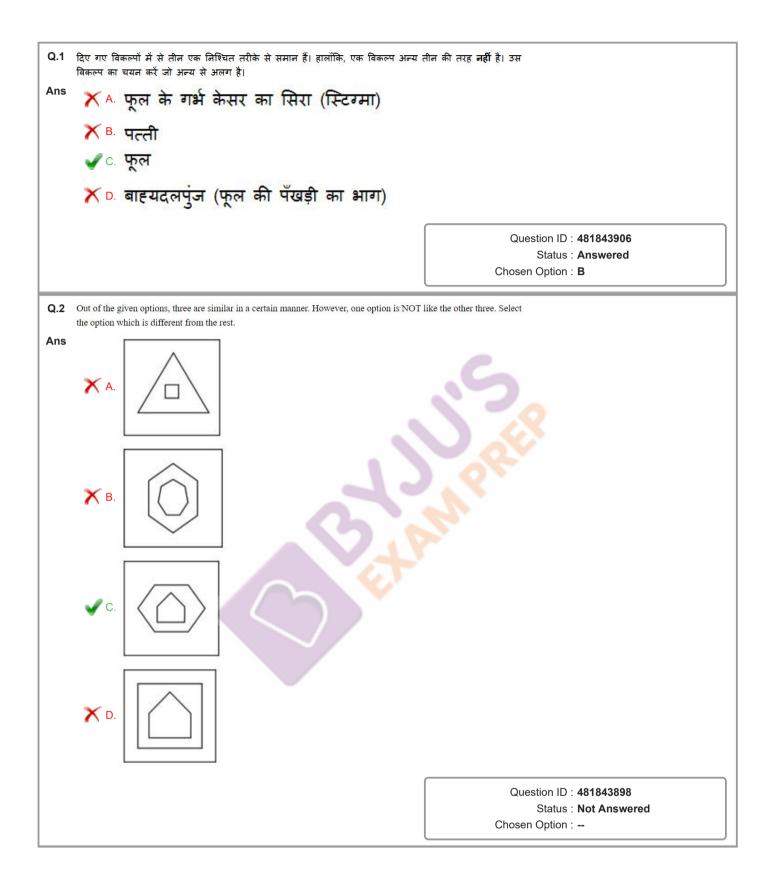
Q.3	0.3 The sentence below has been divided into three parts. Select the part of the sentence that has an error. If the sentence has no error, select the option 'No Error'.	
	I'd hardly finished cleaning/ up the mess than my/ son dropped cake on the floor.	
Ans	ns 🗸 A. up the mess than my	
	X B. son dropped cake on the floor.	
	X C. No Error	
	X D. I'd hardly finished cleaning	
	Question ID : <b>481843893</b> Status : <b>Answered</b>	
	Chosen Option : A	
Q.4	0.4 Some parts of a sentence have been jumbled up, and labelled P, Q, R and S. Select the option that gives the correct sequence in which these parts can be rearranged to form	
	a meaningful and grammatically correct sentence.	
	However, the main	
	P. to eradicate the Q. resolve of the Scots	
	R. two countries lies in the	
	S. difference between the	
Ans	disease.	
	✓ B. SRQP	
	X C. SPQR	
	X D. SQRP	
	Question ID : <b>481843890</b>	
	Status : Not Answered	
	Chosen Option :	
Q.5	0.5 Select the word that is ANTONYM (opposite in meaning) to the word given below.	
	esoteric	
Ans	ns X A. recondite	
	S. obvious	
	X C. mysterious	
	X D. abstruse	
	Question ID : 481843885 Status : Not Answered	
	Chosen Option :	

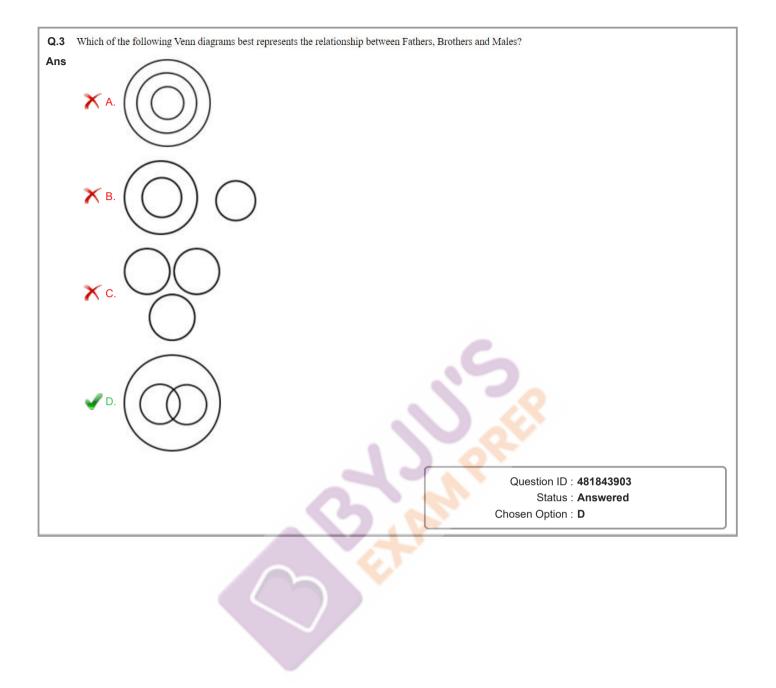
Q.6	Select the most appropriate meaning of the given idiom.	
	A bird in the hand is worth two in the bush	
Ans	X A. Being upset for something that happened in the past.	
	B. Having something that is certain is much better than taking a risk for more, because chances are you might lose everything.	
	ightarrow C. Anything that is common and easy to get.	
	igma D. Something good that isn't recognized at first.	
		Question ID : 481843881
		Status : Not Answered
		Chosen Option :
Q.7	7 Select the word segment that substitutes (replaces) the bracketed word segment correctly and completes the sentence meaningfully. Select the option 'no correction required' if the sentence is correct as given.	
	The question was (never of if or will but how).	
Ans	X A. never if or will but how?	
	X B. never of if or will it be but how?	
	X C. never off or if or will but how?	
	D. No correction required	
		Question ID : 481843887
		Status : Not Answered
		Chosen Option :
Q.8	Select the word that is SYNONYM (similar in meaning) to the word g	iven below.
	abscond	
Ans	X A. endure	
	B. confront	
	C. flee	
	D. abide	
		Question ID : <b>481843884</b>
		Status : <b>Not Answered</b> Chosen Option :
Q.9	Select the most appropriate 'one word ' for the expressions given be	elow.
	A period of time in the past that was idyllically happy and peaceful	
Ans		
	X B. Oracy	
	C. Halcyon	
	X D. Acumen	
		Question ID : 481843880
		Status : Not Answered
		Chosen Option :

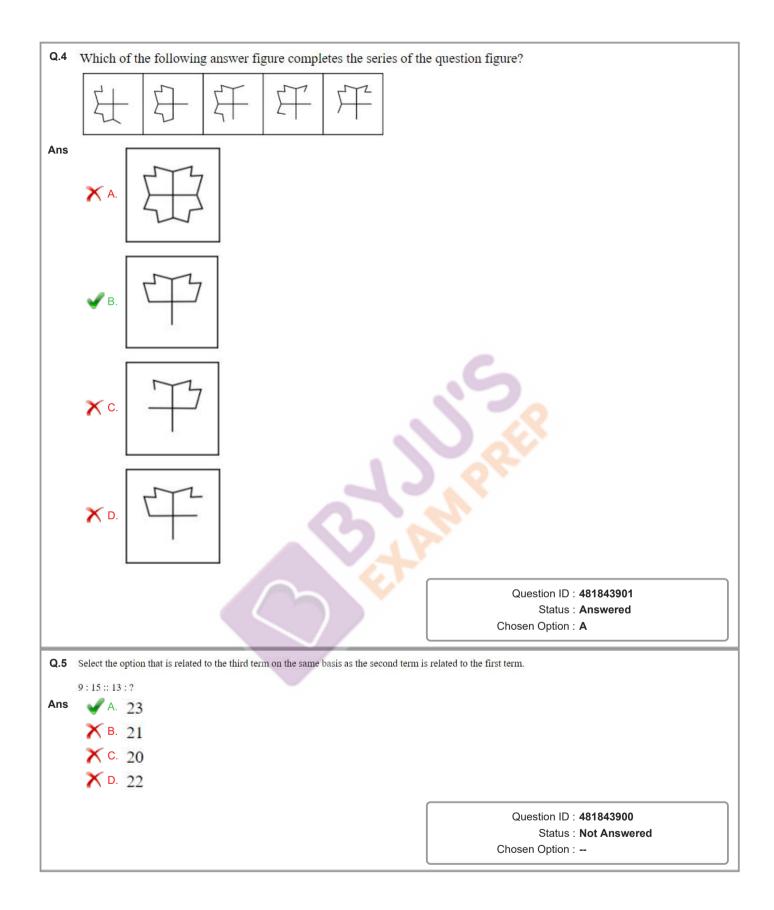
Q.10	Select the most appropriate meaning of the given idiom.		
	Have an Axe to Grind		
Ans	A. To have a dispute with someone.		
	X B. Quickly doing things results in a poor ending.		
	X C. Deteriorating and headed for complete disaster.		
	X D. Angry and overcome by emotions.		
		Question ID : <b>481843882</b> Status : <b>Answered</b>	
		Chosen Option : A	
Q.11	Fill in the blank with the most appropriate choice.		
	Back then, the of the criminals was often matched by t the police.	he corruption of	
Ans	A. venality		
	B. enmity		
	C. vanity		
	D. vivacity		
	C D. Wality		
		Question ID : 481843886	
		Status : Not Answered	
		Chosen Option :	
Q.12	The question below consist of a set of labelled sentences. Out of for select the most logical order of the sentences which form a paragra		
	The Taj Mahal is located on the right bank of the Yamuna River in a garden that encompasses nearly 17 hectares, in the Agra District in		
	<ul> <li>P. It was built by Mughal Emperor Shah Jahan in memory of his wife Mumtaz Mahal with construction starting in 1632 AD and completed in 1648 AD,</li> <li>Q. The mosque, the guest house and the main gateway on the south, the outer courtyard and its cloisters were added subsequently and completed in 1653 AD.</li> <li>R. The existence of several historical and Quranic inscriptions in Arabic script have facilitated setting the chronology of Taj Mahal.</li> <li>S. For its construction, masons, stone-cutters, inlayers, carvers, painters, calligraphers, dome builders and other artisans were requisitioned from the whole of the empire and also from the Central Asia and Iran.</li> </ul>		
	Ustad-Ahmad Lahori was the main architect of the Taj Mahal.		
Ans	X A. SPQR		
	X B. RQPS		
	X C. SRQP		
	J. PQRS		
	▼ 100 100 100 100 100 100 100 100 100 10		
		Question ID : <b>481843889</b>	
		Status : <b>Not Answered</b> Chosen Option :	

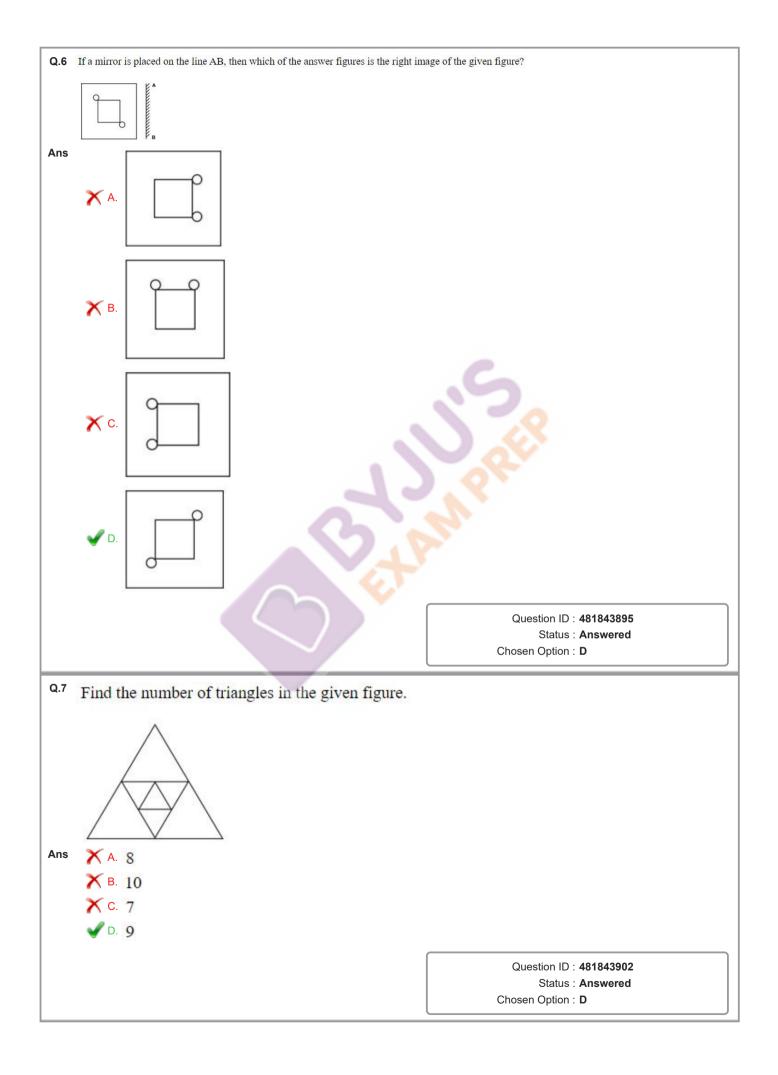
Select the most appropriate meaning of the given idiom.	
Keep body and soul together	
🗙 A. To remain joyful in a tough situation.	
ightarrow B. To understand the details.	
✔ C. To earn a sufficient amount of money in order to keep yourself a	live .
X D. A quick and automatic response.	
• • •	
	Question ID : 481843883
	Status : <b>Answered</b> Chosen Option : <b>D</b>
14 A sentence has been given in Direct/Indirect speech. Out of the four alternatives suggested, select the one which best expresses the same sentence in Indirect/Direct speech.	
	nd conditions can
	eria and conditions
X B. The duty officer said that was going to be unlikely that fulfilment of those criteria and conditions can be accomplished in less than 48 hours.	
C. The duty officer said that it would be unlikely that fulfilment of those criteria and conditions could be accomplished in less than 48 hours.	
D. The duty officer said that it was unlikely that fulfilment of those conditions could be accomplished in less than 48 hours.	riteria and
	Question ID : 481843891
	Status : Answered
	Chosen Option : D
Every year there are hundreds and thousands of tourists visiting the	e Grand Canyon.
X A. The Grand Canyon is being visited by hundreds and thousands year.	of tourists every
B. The Grand Canyon had been visited by hundreds and thousand year.	Is of tourists every
C. The Grand Canyon has been visited by hundreds and thousand year.	Is of tourists every
V D. The Grand Canyon is visited by hundreds and thousands of tou	rists every year.
	Question ID : 481843892
	Status : Answered Chosen Option : A
	<ul> <li>Keep body and soul together</li> <li>A. To remain joyful in a tough situation.</li> <li>B. To understand the details.</li> <li>C. To earn a sufficient amount of money in order to keep yourself at D. A quick and automatic response.</li> </ul> A sentence has been given in Direct/Indirect speech. Out of the four suggested, select the one which best expresses the same sentence speech. The duty officer said, "It is unlikely that fulfilment of these criteria at be accomplished in less than 48 hours". A. The duty officer said that it is unlikely that fulfilment of those criteria to be accomplished in less than 48 hours. B. The duty officer said that it would be unlikely that fulfilment of those criteria to be accomplished in less than 48 hours. C. The duty officer said that it would be unlikely that fulfilment of those criteria to be accomplished in less than 48 hours. C. The duty officer said that it would be unlikely that fulfilment of those criteria to be accomplished in less than 48 hours. C. The duty officer said that it would be unlikely that fulfilment of those criteria at the accomplished in less than 48 hours. D. The duty officer said that it would be unlikely that fulfilment of those criteria accomplished in less than 48 hours. D. The duty officer said that it was unlikely that fulfilment of those criteria accomplished in less than 48 hours. A sentence has been given in Active/Passive voice. Out of the four a suggested, select the one which best expresses the same sentence voice. Every year there are hundreds and thousands of tourists visiting the A. The Grand Canyon had been visited by hundreds and thousands year. B. The Grand Canyon has been visited by hundreds and thousand year.

Section : Reasoning







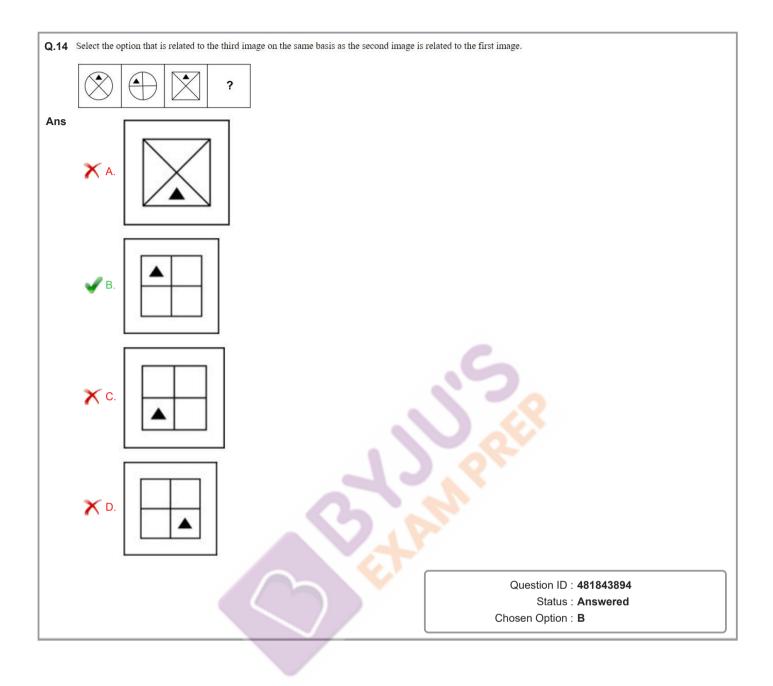


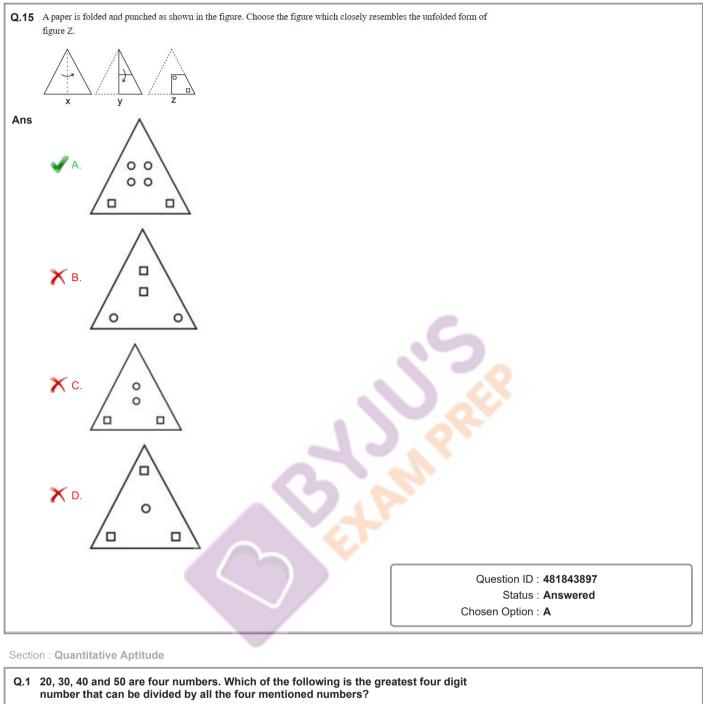
Q.8	In a certain code language if MERCURY is coded as REMCYRU, then what will NEPTUNE be coded as?	
Ans	X A NEPTENU	
	S PENTENU	
	× c. PENTUNE	
	X D. NPETEUN	
	Question ID : 481843899	
	Status : Answered	
	Chosen Option : B	
Q.9	Find the missing number from the series.	
	rind the missing number from the series.	
	3, 6,, 36, 108	
Ans	× A. 24	
	× B. 14	
	× c. 20	
	✓ D. 18	
	Question ID : 481843908	
	Status : Not Answered	
	Chosen Option :	
	CELAN	

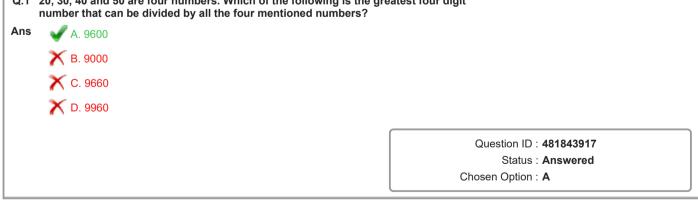
Q.10	Which of the following figure satisfies the same conditions of placement of the dots as in the question figure?
Ans	
	B.
	Question ID : <b>481843907</b> Status : <b>Answered</b> Chosen Option : <b>B</b>
Q.11	How many times does 7 come between 1 to 100?
Ans	
	Х в. 19
	★ c. 17 ✓ D. 20
	▼ 0. 20
	Question ID : <b>481843904</b> Status : <b>Answered</b> Chosen Option : <b>D</b>

Q.12	<sup>12</sup> Find the greatest three-digit number which is a multiple of 8.	
Ans		
	✓ в. 992	
	<b>×</b> c. 998	
	<b>×</b> □. 989	
		ID : <b>481843905</b> tus : <b>Answered</b> ion : <b>B</b>
	<b>Q.13</b> The six-digit number 12334A is divisible by 9, where A is a single-digit whole number. Find the minimum value of A.	
Ans	• • · · · · · · · · · · · · · · · · · ·	
	Х В. 3	
	🗙 c. 6	
	✓ D. 5	
		ID : 481843896 tus : Answered ion : D
	C FLAMPIC	

 $\bigcirc$ 







Q.2	2 A train is moving towards a pole and a stationery man. The speed of the train is 20 m/sec. The train crosses the pole at 12:05 and crosses the man at 12:06, what is the distance between the pole and the man?	
Ans	X A. 12.2 km	
	🗙 B. 120 m	
	<b>V</b> C. 1.2 km	
	🗙 D. 12 km	
		Question ID : 481843922 Status : Answered
		Chosen Option : C
Q.3	A car can cover 80 km in 10 litres of petrol. What amount of distanc in 15 litres of petrol?	e will the car cover
Ans		
	X B. 110 km	
	X C. 100 km	
	X D. 130 km	
	•••	
		Question ID : 481843919 Status : Answered
		Chosen Option : A
Ans	end of 12 years? X A. Rs. 3,600 B. Rs. 72,000 C. Rs. 7,200 D. Rs. 36,000	
		Question ID : 481843924 Status : Not Answered
		Chosen Option :
Q.5	The total number of cars among the three given companies is 10,000. Maruti comprises 30% and the rest is constituted by Honda. What is the absolute difference between the number of I Toyota SUV cars?	
	Sedan         30%         30%         25%           SUV         40%         20%         50%           Hatchback         30%         50%         25%	
Ans	X A. 1200	
	🗙 В. 1300	
	<b>V</b> C. 700	
	X D. 600	
		Question ID : 481843916
		Status : Answered
1		Chosen Option : C

0.6	x = 46464646 निगलित में से किसे x से माण कर	ने पर प्रार्थक प्राप्त लोगा
	2.6 x = .46464646 निम्नलिखित में से किसे x से गुणा करने पर पूर्णांक प्राप्त होगा? Ans 🗸 A. 99	
Alls		
	🗙 В. 999	
	🗙 C. 1000	
	🗙 D. 100	
		Question ID : <b>481843918</b>
		Status : Answered Chosen Option : B
Q.7	Two numbers x and y are in the ratio $2:3$ . If 5 is a ratio of x : y becomes $9:16$ . Which among the fol	
Ans	🗙 A. 2	
	🖌 В. 4	
	X C. 1	
	<b>X</b> D. 3	
	0.3	
		Question ID : 481843910
		Status : Answered
		Chosen Option : B
Q.8	What is the value of .05 × .0090?	
Ans	✓ A. 45 × 10^ -5	
	X B. 45 × 10 <sup>^</sup> -6	
	<b>X</b> C. 45 × 10 <sup>^</sup> -3	
	🗙 D. 45 × 10^ -4	
		Question ID : 481843925
		Status : Answered
		Chosen Option : A
Q.9	An organisation pays Rs. 50 for regular work hou an employee is known to have worked 30 regular his total income?	rs and Rs. 80 per hour of overtime. If hours and 10 overtime hours, what is
Ans	🗙 A. Rs. 2600	
	🗙 B. Rs. 2000	
	X C. Rs. 2400	
	<b>V</b> D. Rs. 2300	
		Question ID : 481843927
		Status : Answered
		Chosen Option : <b>D</b>

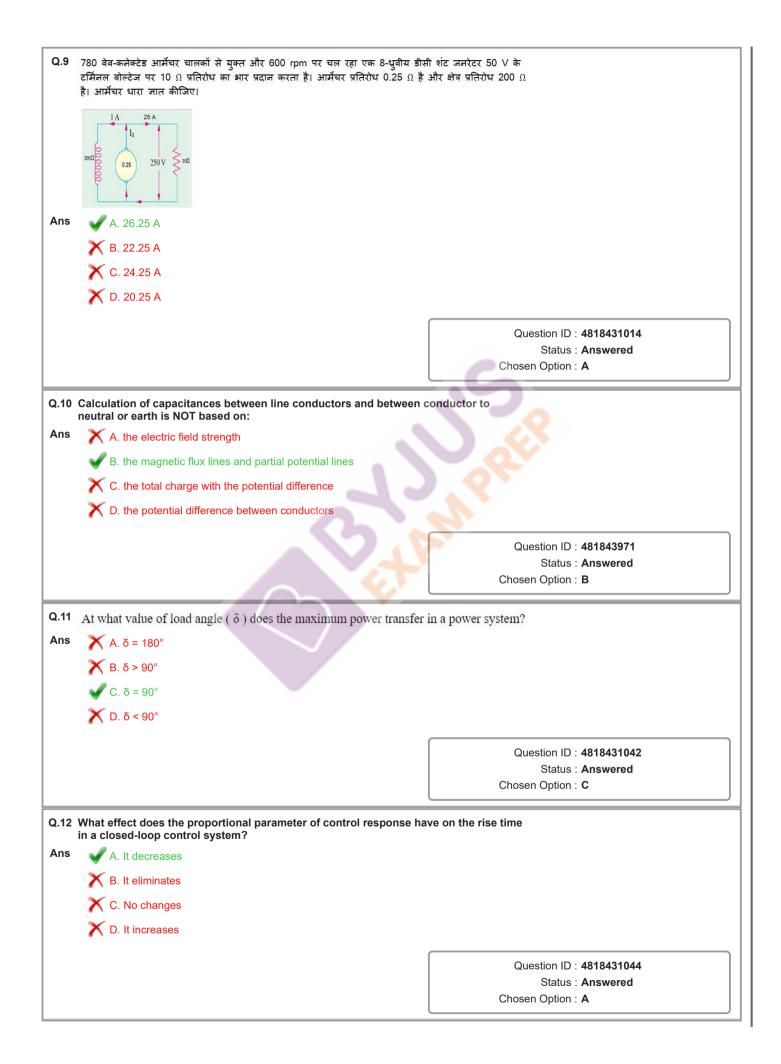
0.10	If Aman can finish 1/5th of the work in a day, what par	t of the work will be complete in
G. 10	3 days?	
Ans	A. 80%	
	🗙 В. 40%	
	X C. 20%	
	<b>V</b> D. 60%	
	-	
		Question ID : <b>481843920</b> Status : <b>Answered</b>
		Chosen Option : D
Q.11	If $x^2 - 3x + 2 = 0$ , what is the sum of the roots of this 'to the power')	equations? (The sign '^' means
Ans		
	🗙 В. 3/2	
	<b>X</b> C. 4	
	<b>X</b> D. 2	
	0.2	
		Question ID : 481843926
		Status : Answered Chosen Option : A
		Chosen Option . A
Q.12	The average monthly salary of Sailesh is Rs. 75,000 for December). If the salary that he receives in January a average salary falls by 15,000. What is the average of and February?	nd February is rem <mark>ov</mark> ed, the
Ans		
	✔ B. Rs. 1,50,000	
	X C. Rs. 3,00,000	
	<b>X</b> D. Rs. 2,25,000	
		Question ID : <b>481843914</b>
		Status : <b>Answered</b> Chosen Option : <b>B</b>
Q.13	यदि समकोण त्रिभुज की भुजाएँ पूर्णांक हैं और कर्ण की लंबाई 1	3 cm है, तो त्रिभुज का परिमाप क्या है?
Ans	🗙 A. 25 cm	
	✔ B. 30 cm	
	🗙 C. 18 cm	
	X D. 17 cm	
		Question ID : 481843913
		Status : Answered
		Chosen Option : B

Q.14	What is the value of z if $z = \{(.9)^3 - (.8)^3\} (.9^2 + .72 + .8^2)$ the power')?	) (The sign '^' means 'to
Ans	X A. 0.2	
	🗙 В. 0.15	
	🗙 C. 0.05	
	🖌 D. 0.1	
		Question ID : 481843911
		Status : Answered
		Chosen Option : D
Q.15	If a certain amount of money yields Rs. 1250 interest under sinterest in 2 years, what is the amount?	simple interest at 5%
Ans	X A. Rs. 25,000	
	<b>V</b> B. Rs. 12,500	
	X C. Rs. 1,25,000	
	X D. Rs. 2,50,000	
		Question ID : 481843915 Status : Answered
		Chosen Option : B
Q.16	By how much is 4/8 less than 8/9?	
Ans		
	✓ B. 7/18	
	X C. 6/18	
	X D. 7/19	
		Question ID : <b>481843923</b> Status : <b>Answered</b>
		Chosen Option : B
Q.17	If $x = 234^{48} \times 522^{35}$ , what is the units digit of the resulting means 'to the power')	ŋ number? (The sign '^'
Ans	🗙 A. 4	
	🗙 В. 6	
	C. 8 D. 2	
	X D. 2	
		Question ID : 481843912 Status : Answered
		Chosen Option : C

Q.18	यदि 'a' और 'b' दो सबसे छोटी धनात्मक अभाज्य संख्याएँ हैं, तो उनके लघुत्तम महत्तम समापवर्तक के अंतर के बीच क्या अंतर है?	समापवर्तक और
Ans	🗙 A. 0	
	🖌 B. 5	
	🗙 C. 6	
	🗙 D. 1	
		Question ID : <b>481843928</b> Status : <b>Answered</b>
		Chosen Option : D
Q.19	If the roots of the quadratic equation $x^2 + px + q = 0$ are 2 and 4, v and q ( the sign '^' means 'to the power')?	vhat is the sum of p
Ans	X A. 6	
	✓ B. 2	
	🗙 C. 8	
	🗙 D2	
		Question ID : 481843909
		Status : Answered
		Chosen Option : B
Ans	<ul> <li>A Rol 0000</li> <li>B. Rs. 4500</li> <li>C. Rs. 3600</li> <li>D. Rs. 4200</li> </ul>	ne m <mark>ark t</mark> he
	on : Electrical Engineering	
Q.1	Which of the following options for the role of a generator in a powe CORRECT?	er system is
Ans	X A. It converts mechanical energy into nuclear energy	
	X B. It converts electrical energy into mechanical energy.	
	C. It converts mechanical energy into electrical energy.	
	ightarrow D. It converts mechanical energy into thermal energy.	
		Question ID : 4818431039
		Status : Answered
		Chosen Option : C

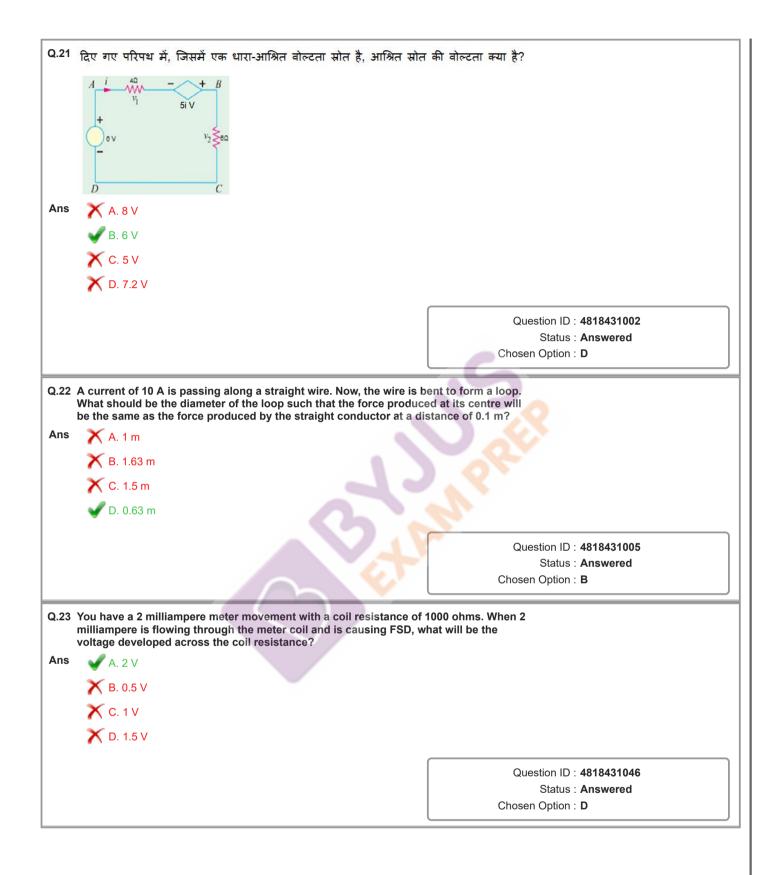
Q.2	The core of a three-phase, 50 Hz, 1000/400 V delta/star: 300 KVA operated with a flux of 0.04 wb. Find the EMF per turn.	core type transformer
Ans	✓ A. 8.88 V	
	X B. 5.5 V	
	C. 6 V	
	<b>X</b> D. 11.2 V	
		Question ID : 4818431022
		Status : <b>Answered</b> Chosen Option : <b>B</b>
Q.3	The is numerically equal to the induced EMF in one coil of change of current in the other coil.	lue to unit rate of
Ans	X A. coefficient of statically self-induced EMF	
	X B. coefficient of dynamically self-induced EMF	
	C. coefficient of mutual induction	
	X D. coefficient of coupling	
		Question ID : 481843933 Status : Answered
		Chosen Option : C
0.1		
Ans	Which of the following statements about voltage amplifiers is INC A. It provides voltage output proportional to the voltage input	CORRECT
	If the input resistance is large as compared with the source resistance, then $V_i$ (input v	$voltage) = V_s$ (source voltage).
	C. In this circuit, the proportionality factor depends on the mag	nitude of the source and
	load resistance.	
	D. If the load resistance is large as compared with the output resist	ance, then $V_{-} = A_{-} V_{-}$
	I de load febballet le large as compared with the employed tester	
		Question ID : <b>4818431028</b>
		Status : <b>Answered</b> Chosen Option : <b>C</b>
	Which of the following statements about electromotive force (EN	
Ans	A. It is the voltage difference between the two terminals of a sc	
	B. It is the work done per unit charge by the source in taking th higher potential energy.	e charge from lower to
	C. It is the work done per unit charge by the source in taking the lower potential energy.	e charge from higher to
	X D. EMF is not a force.	
	· · ·	
		Question ID : <b>481843988</b> Status : <b>Answered</b>
		Chosen Option : C

Q.6	Ampere hour meter is a/an:
Ans	X A. recording instrument
	X B. compound instrument
	X C. indicating instrument
	V D. integrating instrument
	Question ID : 481843951 Status : Answered
	Chosen Option : C
Q.7	दी गई ऊर्जा और आकार के कक्षीय अंतरिक्ष में पसंदीदा अभिविन्यास निर्दिष्ट करती है।
Ans	🗙 A. प्रचक्रण क्वांटम संख्या
	🗙 B. सिद्धांत क्वांटम संख्या
	✔ C. चुंबकीय क्वांटम संख्या
	🗙 D. दिगंशी क्वांटम संख्या
	Question ID : <b>481843969</b>
	Status : Answered
	Chosen Option : D
Q.8	Which of the following statements about magnetostriction and its ill effects is
	INCORRECT?
Ans	X A. The transformer buzzing noise is caused by a phenomenon of magnetostriction.
	X B. The applied magnetic field changes the magnetostrictive strain until reaching its saturation value.
	X C. This effect causes losses which produce heat in ferromagnetic cores.
	D. Using a low value of flux density core is one of the reasons for humming sound in a
	transformer.
	Question ID : 481843959
	Status : Answered
	Chosen Option : B
1	



	Q.13 A single-phase transformer has 300 primary and 900 secondary turns. The net cross- section area of the core is 50 cm <sup>2</sup> . If the primary winding is connected to a 50 Hz supply at 480 V, calculate the voltage induced in the secondary winding.		
Ans	🖌 A. 1440 V		
	🗙 B. 550 V		
	🗙 C. 1000 V		
	🗙 D. 1200 V		
		Question ID : <b>4818431021</b> Status : <b>Answered</b>	
		Chosen Option : A	
0 14	What is the typical value of open-loop voltage gain,	AVOL for a 741 on-amp?	
Ans	A. More than 50,000		
	✓ B. More than 2,00,000		
	<b>X</b> C. More than 10,000		
	D. More than 1,00,000		
	2		
		Question ID : 4818431033	
		Status : Answered	
	The ratio of the total number of lumens reaching the	Status : Answered Chosen Option : A	
	of lumens emitting from source is known as:	Status : Answered Chosen Option : A	
	of lumens emitting from source is known as: X A. waste light factor	Status : Answered Chosen Option : A	
	of lumens emitting from source is known as: A. waste light factor B. absorption factor	Status : Answered Chosen Option : A	
	of lumens emitting from source is known as: A. waste light factor B. absorption factor C. coefficient of utilisation	Status : Answered Chosen Option : A	
	of lumens emitting from source is known as: A. waste light factor B. absorption factor	Status : Answered Chosen Option : A	
	of lumens emitting from source is known as: A. waste light factor B. absorption factor C. coefficient of utilisation	Status : Answered Chosen Option : A	
	of lumens emitting from source is known as: A. waste light factor B. absorption factor C. coefficient of utilisation	Status : Answered Chosen Option : A working plane to the total number Question ID : 481843965 Status : Answered	
	of lumens emitting from source is known as: A. waste light factor B. absorption factor C. coefficient of utilisation	Status : Answered Chosen Option : A	
Ans Q.16	of lumens emitting from source is known as: A. waste light factor B. absorption factor C. coefficient of utilisation D. coefficient of illumination	Status : Answered Chosen Option : A e working plane to the total number Question ID : 481843965 Status : Answered Chosen Option : C	
Ans	of lumens emitting from source is known as: A. waste light factor B. absorption factor C. coefficient of utilisation D. coefficient of illumination In the context of power generation, MHD stands for: A. Magneto Hydro Dynamic	Status : Answered Chosen Option : A e working plane to the total number Question ID : 481843965 Status : Answered Chosen Option : C	
Ans Q.16	of lumens emitting from source is known as: A. waste light factor B. absorption factor C. coefficient of utilisation D. coefficient of illumination In the context of power generation, MHD stands for: A. Magneto Hydro Dynamic B. Magnetic Hydraulic Dynamic	Status : Answered Chosen Option : A e working plane to the total number Question ID : 481843965 Status : Answered Chosen Option : C	
Ans Q.16	of lumens emitting from source is known as: A. waste light factor B. absorption factor C. coefficient of utilisation D. coefficient of illumination In the context of power generation, MHD stands for: A. Magneto Hydro Dynamic	Status : Answered Chosen Option : A e working plane to the total number Question ID : 481843965 Status : Answered Chosen Option : C	
Ans Q.16	of lumens emitting from source is known as: A. waste light factor B. absorption factor C. coefficient of utilisation D. coefficient of illumination In the context of power generation, MHD stands for: A. Magneto Hydro Dynamic B. Magnetic Hydraulic Dynamic	Status : Answered Chosen Option : A e working plane to the total number Question ID : 481843965 Status : Answered Chosen Option : C	
Ans Q.16	of lumens emitting from source is known as: A. waste light factor B. absorption factor C. coefficient of utilisation D. coefficient of illumination In the context of power generation, MHD stands for: A. Magneto Hydro Dynamic B. Magnetic Hydraulic Dynamic C. Magneto Hydro Dimension	Exatus : Answered Chosen Option : A e working plane to the total number Question ID : 481843965 Status : Answered Chosen Option : C	
Ans Q.16	of lumens emitting from source is known as: A. waste light factor B. absorption factor C. coefficient of utilisation D. coefficient of illumination In the context of power generation, MHD stands for: A. Magneto Hydro Dynamic B. Magnetic Hydraulic Dynamic C. Magneto Hydro Dimension	Status : Answered Chosen Option : A e working plane to the total number Question ID : 481843965 Status : Answered Chosen Option : C	

Q.17	' Which of the following points about the RMS value is INCORRE	CT?
Ans A. The heat produced due to AC is proportional to the RMS value of the current.		alue of the current.
	ightarrow B. The RMS value can be determined by graphical method.	
	C. The ammeters and voltmeters record the RMS values of curespectively.	urrent and voltage,
	D. In case of alternating quantities, the RMS values are used magnitude of alternating quantities.	for specifying the
		Question ID : <b>481843948</b> Status : <b>Answered</b> Chosen Option : <b>B</b>
Q.18	Calculate the synchronous speed of a 3-phase induction motor, are given as 6 and 60 Hz, respectively.	if poles and frequency
Ans	🗙 🗙 A. 1000 rpm	
	🗙 B. 1400 rpm	
	🗙 C. 1100 rpm	
	🗸 D. 1200 rpm	
		Question ID : 4818431008 Status : Answered Chosen Option : D
Q.19	A 4-pole, long shunt lap wound generator supplies 20 kW at a to V. The armature resistance is 0.02 $\Omega$ , series field resistance is 0 resistance is 100 $\Omega$ . The brush drop may be taken as 1.0 V. Dete EMF.	.04 Ω and shunt field
Ans	V A. 400.24 V	
	X B. 400 V	
	X C. 380 V	
	🗙 D. 505 V	
		Question ID : 4818431016
		Status : Answered
		Chosen Option : A
Q.20	) Which of the following types of damping is used in a permanen instrument?	t magnet moving coil
Ans	🗙 A. Air friction damping	
	V B. Eddy current damping	
	X C. Electromagnetic damping	
	🗙 D. Fluid friction damping	
		Question ID : 4818431038 Status : Answered
		Chosen Option : B

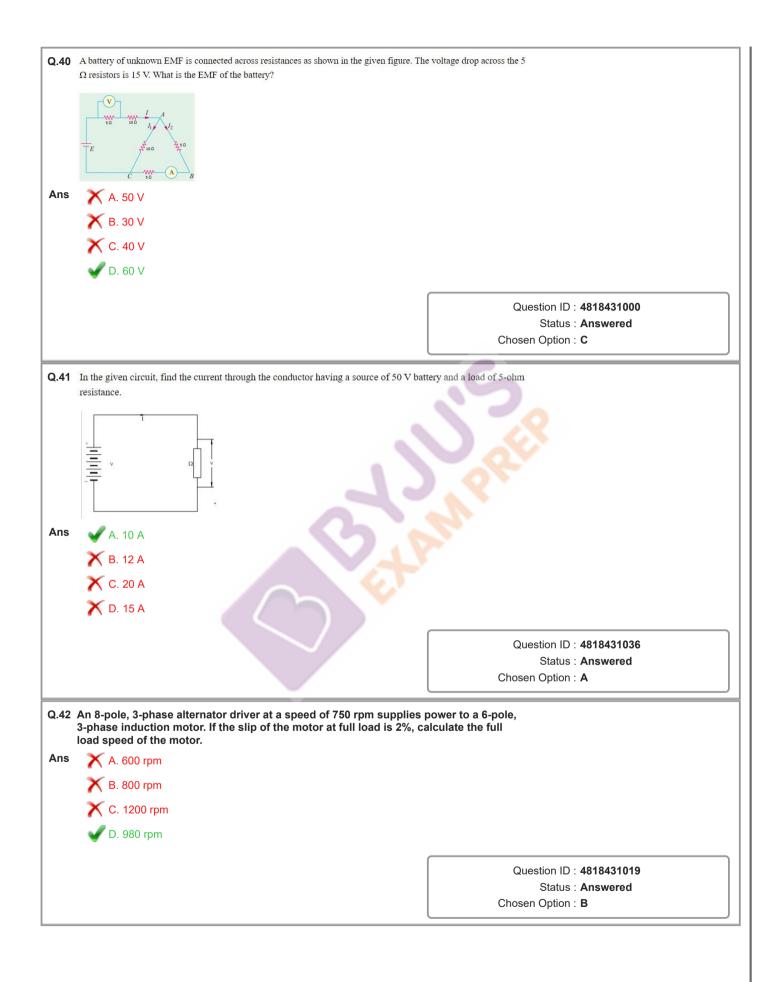


	A lead wire and an iron wire are connected in parallel. Their respective resistances are in the ratio 40 : 20. The former carries 80% more curren and the latter is 45% longer than the former. Determine the ratio of their sectional areas.	t than the latter,
Ans	ns 🗙 A. 0.3	
	<b>V</b> B. 0.4	
	<b>X</b> C. 0.6	
	<b>X</b> D. 0.5	
		Question ID : <b>481843995</b>
		Status : <b>Answered</b> Chosen Option : <b>B</b>
	5 Which of the following statements about semiconductors is INCORREC	
Ans		and silicon
	X B. Current carriers are free electrons and holes in semiconductors.	
	C. It is a substance whose conductivity lies between a metal and a co	nductor.
	imes D. The width of the forbidden band of semiconductors is relatively small $ imes$	all.
		Question ID : 481843970
		Status : Answered
		Chosen Option : C
Q.26 Ans	Which of the following is the CORRECT representation of transconduct A. $G_M = I/V_i$ B. $G_M = V/V_i$ C. $G_M = I/I_i$ D. $G_M = V/I_i$	tance?
		Question ID : <b>4818431029</b>
		Status : <b>Answered</b> Chosen Option : <b>A</b>
		·
	Which of the following controllers improves the transient response of a	a system?
Ans		
	X B. The proportional and integral controllers	
	X C. The integral controller	
	D. The derivative controller	
	Г	Question ID : 4818431045
		Status : Answered
		Chosen Option : C

Q.28	Q.28 Which of the following statements about the nature of speed control required by different industrial drives is INCORRECT?	
Ans	Ans A. Some drives require only one fixed speed over a region; such drives are called mono-speed drives.	
	B. Some drives require continuously variable speed over the range from zero to full speed; such drives are called variable speed drives.	
	C. Some drives require only two or three fixed speeds over a region; such drives are called multi-speed drives.	
	X D. In some cases, speed is needed for adjusting the work on a driven machine only for a few revolutions per minute; such a speed is known as creeping speed.	
	Question ID : Status : Chosen Option :	Answered
Q.29 Ans		
	<ul> <li>Ans X A. Indirect arc heating</li> <li>X B. Direct induction heating</li> </ul>	
	C. Direct arc heating	
	D. Infrared heating	
		]
	Question ID : Status :	481843964 Answered
	Chosen Option :	Α
Q.30	Q.30 Which of the following is NOT the advantage of bundled conductors?	
Ans		
	X B. Reduced interferences with communication circuits	
	X C. Reduced corona loss due to larger cross-sectional area	
	D. Reduced clearance requirements at structures	
		494942062
	Question ID : Status :	Answered
	Chosen Option :	Α
Q.31	Q.31 According to the latest practice, the approximate land required for a 220 kV substation is:	
Ans		
	B. 25 acres	
	D. 70 acres	
		]
		481843983 Answered
	Chosen Option :	В
	C. 10 acres D. 70 acres Question ID : Status :	Answered

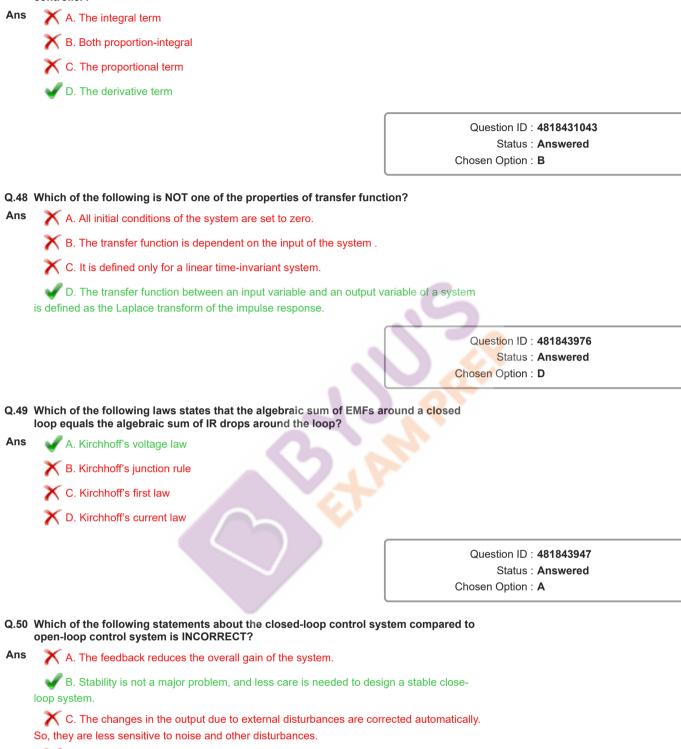
Q.32	The clearance above ground for EHV lines shall NOT be less	es than:
Ans	🗙 A. 4.6 m	
	🗙 B. 6.3 m	
	🗙 C. 5.4 m	
	✔ D. 5.2 m	
		Question ID : <b>481843985</b> Status : <b>Answered</b>
		Chosen Option : D
Q.33	What is the value of crest for sinusoidal AC only?	
Ans	X A. 0.309	
	<b>V</b> B. 1.414	
	X C. 1.11	
	X D. 0.707	
		Question ID : 4818431011 Status : Answered
		Chosen Option : B
Q.34	Torques are associated with synchronous motor; which of also known as breakaway torque?	the following torques is
Ans	A. Starting torque	
	X B. Pull in torque	
	X C. Running torque	
	X D. Pull out torque	
		Question ID : 4818431035 Status : Answered
		Chosen Option : <b>C</b>
Q.35	A closed-loop control system is also known as	
Ans	A. feedback control system	
	X B. forward control system	
	C. backward control system	
	X D. reverse control system	
		Question ID : <b>4818431047</b> Status : <b>Answered</b>
		Chosen Option : A

Ans A. Reciprocity theorem B. Thevenin's theorem C. Star/delta conversion D. Norton's theorem Question ID : Status : Chosen Option :	481843934
C. Star/delta conversion D. Norton's theorem Question ID : Status :	481843934
D. Norton's theorem Question ID : Status :	481843934
Question ID : Status :	481843934
Status :	481843934
Status :	481843934
Chosen Option :	Answered
	c
Q.37 In phasor representation of an alternating quantity, the sinusoidally varying alternating quantity can be represented graphically by:	
Ans X A. zigzag form	
B. a straight line with an arrow	
🗙 C. hyperbolic linear form	
X D. a line defining variable points is some distance	
Question ID :	494942040
	Answered
Chosen Option :	В
Q.38 Which of the following signals are continuous and can vary in wide range of values?	
Ans X A. Domain signals	
B. Digital signals	
C. Discrete signals	
D. Analogue signals	
	]
Question ID :	481843967 Answered
Chosen Option :	
	)
Q.39 Which of the following is the dimension of electrical conductivity? Ans $(3, -3, -3, -3, -3, -3, -3, -3, -3, -3, -$	
Ans $(M L^3 T^{-3} A^{-2})$	
$\times$ B. [M L <sup>2</sup> T <sup>-3</sup> A <sup>-1</sup> ]	
$\sim c. [M^{-1}L^{-3}T^{3}A^{2}]$	
▶ D. [L T <sup>-1</sup> ]	
Question ID :	481843991
Status :	Answered
Chosen Option :	В



	43 Which of the following statements about the transformer or mechanical gear drive is INCORRECT?	
Ans	A. In mechanical gear drive, there is a perfect ratio between the number of teeth and the speeds of the two gears.	
	B. Mechanical gear drive transfers mechanical power from one joint to another.	
	X C. Transformer transfers electrical power from one circu	lit to the other.
	ightarrow D. Power is transferred through the magnetic flux in tra	nsformer.
		Question ID : <b>481843957</b> Status : <b>Answered</b> Chosen Option : <b>D</b>
Q.44	Which of the following methods utilises a vane mounted or system? The vane is of thin aluminium sheet and moves i box?	
Ans	X A. Fluid friction damping	
	X B. Eddy current damping	
	X C. Final oscillation damping	
	V D. Air friction damping	
		Question ID : 481843954
		Status : Answered
		Chosen Option : A
Q.45	Which of the following statements about the stacking fact	or in magnetic circuits is
	FALSE?	
Ans	FALSE? X A. It is important in calculating flux densities in magnetic	
Ans		parts.
Ans	X A. It is important in calculating flux densities in magnetic	parts. mination thickness increases.
Ans	$\mathbf{X}$ A. It is important in calculating flux densities in magnetic $\mathbf{X}$ B. It is usually less than 1.0; it approaches 1.0 as the la	parts. mination thickness increases. I the stacking factor.
Ans	<ul> <li>A. It is important in calculating flux densities in magnetic</li> <li>B. It is usually less than 1.0; it approaches 1.0 as the la</li> <li>C. The ratio of effective area of the overall area is called</li> <li>D. It is also defined as the ratio of the total volume of the</li> </ul>	parts. mination thickness increases. I the stacking factor.
Ans	<ul> <li>A. It is important in calculating flux densities in magnetic</li> <li>B. It is usually less than 1.0; it approaches 1.0 as the la</li> <li>C. The ratio of effective area of the overall area is called</li> <li>D. It is also defined as the ratio of the total volume of the</li> </ul>	e parts. mination thickness increases. If the stacking factor. e core to the volume occupied Question ID : 481843938 Status : Answered
Ans	<ul> <li>A. It is important in calculating flux densities in magnetic</li> <li>B. It is usually less than 1.0; it approaches 1.0 as the la</li> <li>C. The ratio of effective area of the overall area is called</li> <li>D. It is also defined as the ratio of the total volume of the</li> </ul>	parts. mination thickness increases. If the stacking factor. e core to the volume occupied Question ID : <b>481843938</b>
	<ul> <li>A. It is important in calculating flux densities in magnetic</li> <li>B. It is usually less than 1.0; it approaches 1.0 as the la</li> <li>C. The ratio of effective area of the overall area is called</li> <li>D. It is also defined as the ratio of the total volume of the</li> </ul>	c parts. mination thickness increases. If the stacking factor. e core to the volume occupied Question ID : 481843938 Status : Answered Chosen Option : C
	<ul> <li>A. It is important in calculating flux densities in magnetic</li> <li>B. It is usually less than 1.0; it approaches 1.0 as the late</li> <li>C. The ratio of effective area of the overall area is called</li> <li>D. It is also defined as the ratio of the total volume of the by magnetic material.</li> </ul>	c parts. mination thickness increases. If the stacking factor. e core to the volume occupied Question ID : 481843938 Status : Answered Chosen Option : C
Q.46	<ul> <li>A. It is important in calculating flux densities in magnetic</li> <li>B. It is usually less than 1.0; it approaches 1.0 as the late</li> <li>C. The ratio of effective area of the overall area is called</li> <li>D. It is also defined as the ratio of the total volume of the by magnetic material.</li> </ul>	c parts. mination thickness increases. If the stacking factor. e core to the volume occupied Question ID : 481843938 Status : Answered Chosen Option : C
Q.46	<ul> <li>A. It is important in calculating flux densities in magnetic</li> <li>B. It is usually less than 1.0; it approaches 1.0 as the late</li> <li>C. The ratio of effective area of the overall area is called</li> <li>D. It is also defined as the ratio of the total volume of the by magnetic material.</li> </ul>	c parts. mination thickness increases. If the stacking factor. e core to the volume occupied Question ID : 481843938 Status : Answered Chosen Option : C
Q.46	<ul> <li>A. It is important in calculating flux densities in magnetic</li> <li>A. It is usually less than 1.0; it approaches 1.0 as the late</li> <li>C. The ratio of effective area of the overall area is called</li> <li>D. It is also defined as the ratio of the total volume of the by magnetic material.</li> </ul> Which of the following winding is mostly suitable for low windings of large transformers? <ul> <li>A. Helical winding</li> <li>B. Continuous disc winding</li> </ul>	c parts. mination thickness increases. If the stacking factor. e core to the volume occupied Question ID : 481843938 Status : Answered Chosen Option : C
Q.46	<ul> <li>A. It is important in calculating flux densities in magnetic</li> <li>B. It is usually less than 1.0; it approaches 1.0 as the latent of the coverall area is called</li> <li>C. The ratio of effective area of the overall area is called</li> <li>D. It is also defined as the ratio of the total volume of the by magnetic material.</li> </ul> Which of the following winding is mostly suitable for low windings of large transformers? <ul> <li>A. Helical winding</li> <li>B. Continuous disc winding</li> <li>C. Crossover winding</li> </ul>	c parts. mination thickness increases. If the stacking factor. e core to the volume occupied Question ID : 481843938 Status : Answered Chosen Option : C
Q.46	<ul> <li>A. It is important in calculating flux densities in magnetic</li> <li>B. It is usually less than 1.0; it approaches 1.0 as the latent of the coverall area is called</li> <li>C. The ratio of effective area of the overall area is called</li> <li>D. It is also defined as the ratio of the total volume of the by magnetic material.</li> </ul> Which of the following winding is mostly suitable for low windings of large transformers? <ul> <li>A. Helical winding</li> <li>B. Continuous disc winding</li> <li>C. Crossover winding</li> </ul>	e parts. mination thickness increases. d the stacking factor. e core to the volume occupied Question ID : 481843938 Status : Answered Chosen Option : C

Q.47 Which of the following terms is responsible for noise measurement in the PID controller?



X D. The closed-loop systems are accurate and reliable.

Question ID : **481843975** Status : **Answered** Chosen Option : **B** 

## Q.51 Which of the following statements about the Wien Bridge Oscillator is CORRECT?

- Ans X A. Op-amp is used in inverting mode.
  - X B. Op-amp circuit is introduced in 180° phase shift.
  - C. Feedback network is lead-lag network.
  - K⊂D. The amplifier gain condition is |A|≥29.

Question ID : **4818431031** Status : **Answered** Chosen Option : **B** 

Q.52 An 800 pF capacitor is charged by a 100 V battery. How much electrostatic energy is stored by the capacitor?

Ans	$\times$ 4.5 × 10 <sup>-12</sup> J
	<mark>Х</mark> в. <sub>6.5</sub> × 10 <sup>−8</sup> J
	<b>X</b> c. 9.5 × 10 <sup>−6</sup> J
	✓ <sup>D.</sup> 4 × 10 <sup>−6</sup> J

Question ID : 481843992 Status : Answered Chosen Option : D

Q.53 Which of the following is NOT the advantage of R-C phase shift oscillator?

Ans X A. It is a fixed frequency oscillator.

B. By changing the value of R and C, the frequency of the oscillator can be changed.

X C. The circuit is simple to design.

X D. It can produce output over the audio frequency range.

Question ID : **4818431030** Status : **Answered** Chosen Option : **B** 

Q.54 A coil consists of 4000 turns of copper wire having a cross-sectional area of 0.6 mm<sup>2</sup>. The mean length per turn is 60 cm, and the resistivity of copper is 0.04 μΩ m. Find the power absorbed by the coil when connected across a 110 V DC supply.



Question ID : **4818431003** Status : **Answered** Chosen Option : **B**  Q.55 Reluctance (S) of a magnetic circuit is given as:



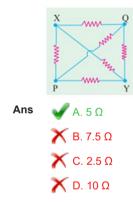
Question ID:4818431009 Status:Answered Chosen Option:B

Q.56 In a two-diode full wave rectifier, with a load current requirement of 4.2 A, what should be the current ratings of the diodes used?

A
A

Question ID : **481843989** Status : **Answered** Chosen Option : **A** 

Q.57 In the given circuit, if all the resistances are of 10 ohms, then calculate the equivalent resistance between XY diagonal points.





Q.58 Which of the following is the symbol of current density?



Question ID:481843990 Status:Answered Chosen Option:C

Q.59	9 Which of the following statements about the time-invariant and time-varying cor		
	systems is INCORRECT?		

**Ans** A. The characteristics of time-varying control system change with time and the coefficients of its differential equation are variable coefficient.

**X** B. A time-invariant control system is one in which the parameters of the system are stationary with respect to time during the operation of the system.

C. The characteristics of time-invariant control system do not change with time, and it can be represented by constant coefficient differential equations.

**X** D. A time-varying control system is one in which the parameters of the system are not stationary with respect to time during the operation of the system.

## WWW.ALLEXAMREVIEW.COM

Question ID : 481843977
Status : Answered
Chosen Option : D

Q.60 Which of the following statements about LED is INCORRECT?

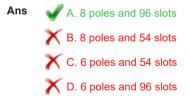
- Ans X A. It needs large power for operation.
  - X B. It emits light.
  - ightarrow C. It uses materials like gallium and arsenide.
  - D. It uses materials like silicon and germanium.

Question ID : 4818431027 Status : Answered Chosen Option : A

- Q.61 In which of the following circuits is the total voltage drop equal to the sum of the voltage drops in various elements of the circuits?
- Ans X A. Series resistance circuit
  - 🗙 B. Parallel magnetic circuit
  - X C. Series magnetic circuit
  - D. Series electric circuit

Question ID : **481843942** Status : **Answered** Chosen Option : **D** 

Q.62 The stator of a 3-phase induction motor has 4 slots per pole phase. If the supply frequency is 50 Hz, calculate the number of stator poles produced and the total number of slots on the stator, respectively.

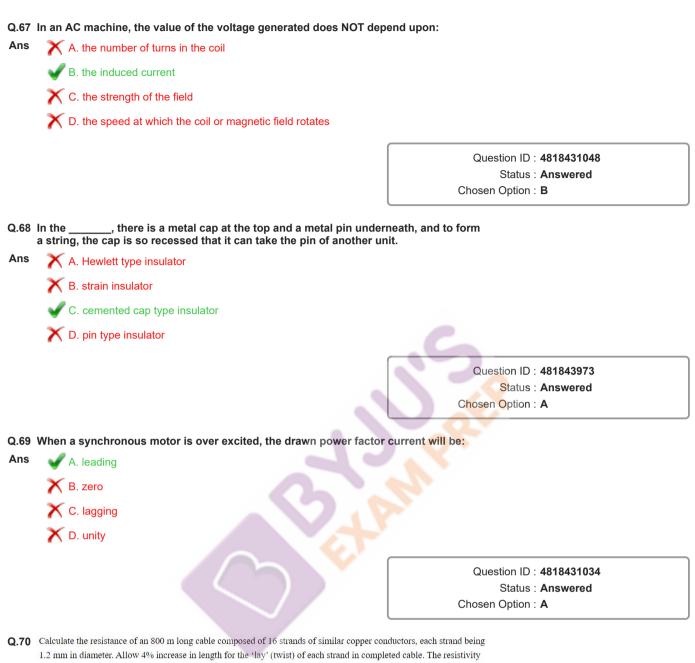


Question ID : 4818431017 Status : Answered Chosen Option : C

Q.63	Q.63 The reluctance offered by the magnetic circuit or a part of magnetic circuit does NOT depend upon the:	
Ans	Ans X A. nature of the magnetic material	
	B. deteriorated flux of the magnetic circuit	
	ightarrow C. length of the magnetic flux path in the part of the magnetic circuit	
	ig X D. cross-section area of the material through which the flux is passing	
	Question ID : 4818	43935
	Status : Ansu	vered
	Chosen Option : C	
Q.64	Q.64 A conductor of length 1 m moves at right angles to a uniform magnetic field of flux density 2 Wb/m <sup>2</sup> with a velocity of 60 m/s. Calculate the EMF induced in it.	
Ans	Ans 🗙 A. 240 V	
	X B. 440 V	
	X C. 100 V	
	🖌 D. 120 V	
	Question ID : 4818 Status : Answ Chosen Option : B	
Q.65	Q.65 The regulation of the alternator for a power factor of 0.8 lagging is:	
Ans	Ans V A. greater than that at unity power factor	
	X B. smaller than that at unity power factor	
	C. similar to unity power factor	
	X D. not possible	
	Question ID : 4818 Status : Answ Chosen Option : B	
	Q.66 The maximum flux density in the core of a 200/2000 V, 50 Hz single-phase transformer is 1.2 wb/m <sup>2</sup> . If the EMF per turn is 10 V, determine the primary and secondary turns, respectively.	
Δnc		



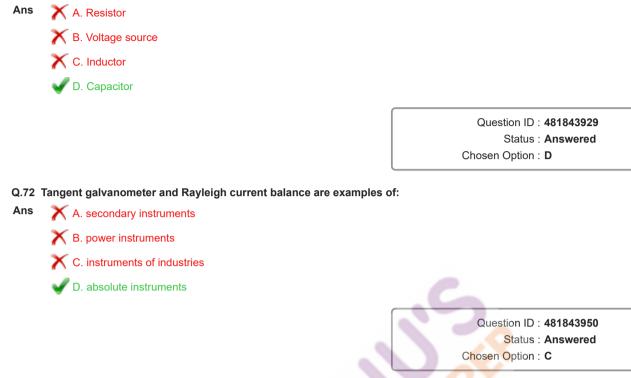
Question ID : **4818431020** Status : **Answered** Chosen Option : **B** 



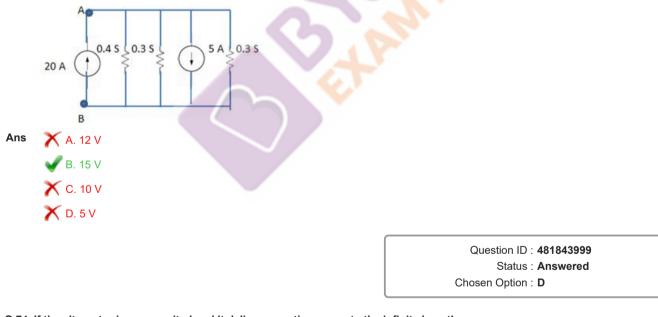
of copper may be taken as  $1.32 \times 10^{-8} \Omega$  m.

Ans	🗸 Α. 0.6 Ω
	🗙 Β. 0.3 Ω
	Χ. 0.4 Ω
	Χ D. 0.2 Ω

Question ID : **481843994** Status : **Answered** Chosen Option : **B**  Q.71 In which of the following types of elements are the electric charges stored for a prescribed duration of time?



Q.73 In the given circuit, what is the potential difference between points A and B?



Q.74 If the alternator is over-excited and it delivers reactive power to the infinite bus, then under this condition:

X A. the alternator is operating at unity power factor

Ans

ig X B. the alternator is operating both at leading and lagging power factor

ig X C. the alternator is operating at leading power factor

D. the alternator is operating at lagging power factor

Question ID : **481843960** Status : **Answered** Chosen Option : **C**  Q.75 The typical values of leakage factor are approximately from:



Question ID : **481843940** Status : **Answered** Chosen Option : **C** 

> Question ID : 4818431015 Status : Answered

Chosen Option : D

Q.76 A 4-pole generator having wave wound armature winding has 60 slots, each slot containing 20 conductors. What will be voltage generated in the machine when driven at 1000 rpm assuming the flux per pole to be 5 mWb?

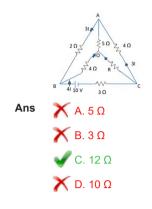
Ans	🗙 A. 150 V
	🗙 B. 100 V
	🗙 C. 250 V
	💞 D. 200 V

Q.77 "By the motion of the conductor or the coil in a magnetic field, i.e., the magnetic field is stationary and the moving conductors cut arrows it. The EMF generated in this way is normally called dynamically induced EMF."

The given statement is specified by which of the following laws?



Question ID : **481843932** Status : **Answered** Chosen Option : **C**  **Q.78** In the circuit shown in the following figure, calculate the value of the unknown resistance R when the current in branch OA is zero.



Question ID : **481843997** Status : **Answered** Chosen Option : **C** 

Q.79 A 240 V, 4-pole wave wound DC series motor has 600 conductors on its armature; it has armature and series field resistance of 0.5 ohm. The motor takes a current of 30 A. Estimate its gross torque developed if it has a flux per pole of 25 mWb.



Question ID : **4818431013** Status : **Answered** Chosen Option : **D** 

Q.80 Which of the following statements about the resistance, R, offered by a conductor is INCORRECT?

Ans A. It is directly proportional to the cross-section, A, of the conductor.

ig X B. It varies directly with the length, I, of the conductor.

imes C. It depends on the temperature of the conductor.

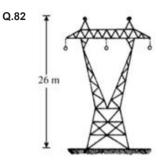
ig X D. It depends on the nature of the material.

Question ID : **481843993** Status : **Answered** Chosen Option : **A** 

Q.81 The thickness of lamination (which reduces eddy current loss) in electrical machine varies from:
 (Select the closest range)

Ans X A. 0.1 to 1 mm X B. 0.5 to 2 mm X C. 0.1 to 2 mm ✓ D. 0.5 to 5 mm

> Question ID : **481843936** Status : **Answered** Chosen Option : **D**



Ans

What does the given figure represent?

- A. Single circuit two ground wire tower
- X B. Two-bundle conductor two-ground wire tower
- ig X C. Single and double circuit towers with one ground wire
- 🗙 D. HVDC bipolar tower

Question ID : **481843972** Status : **Answered** Chosen Option : **C** 

Q.83 For which of the following reasons are the EHV lines NOT preferred?

Ans X A. With an increase in operating voltage, the number of circuits and the requirements of land are reduced considerably.

**X** B. There is improved performance of transmission lines, i.e., efficiency and regulation increases with an increase in transmission voltage.

C. The installation cost of transmission lines per kilometre decreases as the volume of the conductor decreases, and hence the cost of line support reduces.

D. There is an increase in surge impedance loading as it is directly proportional to the transmission voltage.

Question ID : **481843978** Status : **Answered** Chosen Option : **C** 

Ans ХА. 1 🗙 в. current V В Хс. R - motion current + BD. motion Question ID : 4818431001 Status : Answered Chosen Option : B Q.85 Which of the following methods used for average value determination is convenient for non-sinusoidal waves? Ans X A. Infinite method B. Mid-ordinate method C. Method of integration × D. n-strips method X Question ID : 481843946 Status : Answered Chosen Option : C

Q.84 Select the correct figure for fall in voltage -V = -IR:

Q.86 How does the synchronous condenser work under heavy loads?

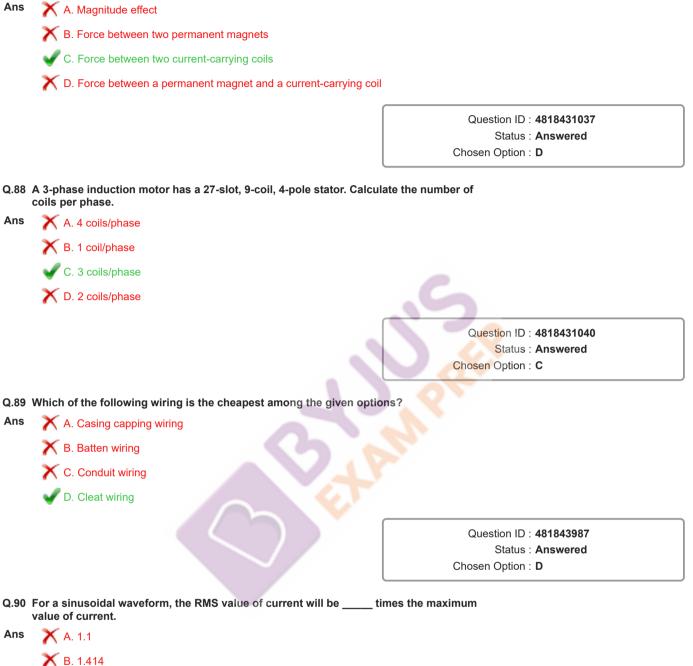
X A. It works as a synchronous motor.

Ans

- B. It works as a VAR generator.
- X C. It works as a VAR absorber.
- X D. It works as a synchronous generator.

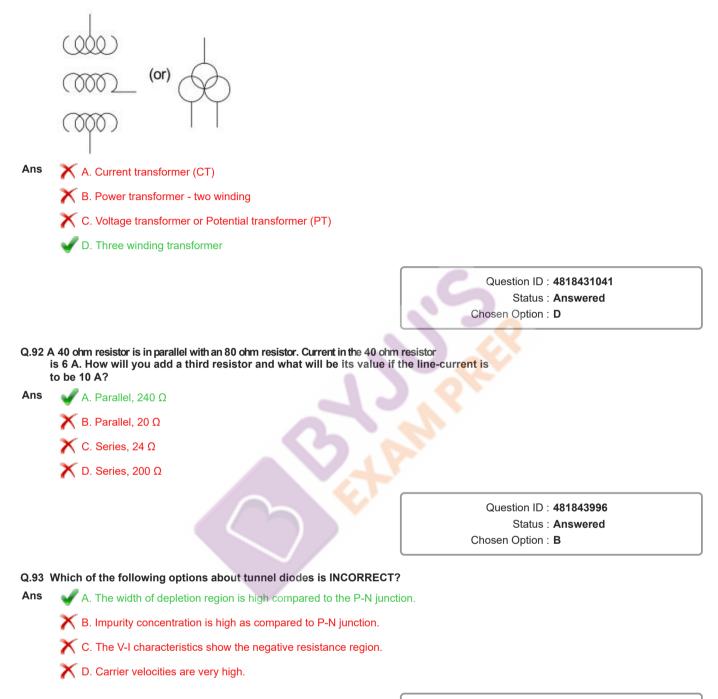
Question ID : 481843982 Status : Answered Chosen Option : A

Q.87 Which of the following principles is utilised in an electrodynamometer type instrument?

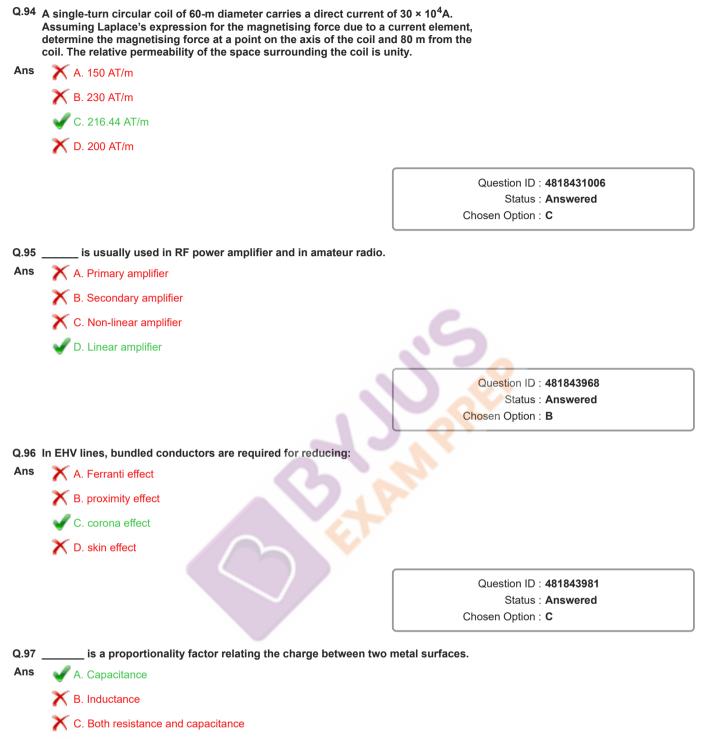


X	B. 1.414
X	C. 0.637
1	D. 0.707

Question ID : **481843945** Status : **Answered** Chosen Option : **D**  Q.91 Select the correct option for the given figure.



Question ID:4818431032 Status:Answered Chosen Option:C



X D. Resistance

Question ID : **481843930** Status : **Answered** Chosen Option : **A** 





Question ID : **481843937** Status : **Answered** Chosen Option : **C** 

Q.99 Which of the following methods, used for maintaining the voltage within limits, are provided at both ends of all transmission lines?

- Ans X A. Static VAR compensators at heavy loads
  - B. Shunt reactors
  - X C. Shunt capacitor banks
  - 🗙 D. Synchronous condensers

Question ID : 481843979 Status : Answered Chosen Option : B

Q.100 Which of the following statements about the EHV lines is INCORRECT?

Ans X A. The line can be easily tapped and or extended as the power need not be converted.

B. The surface-voltage gradient on conductors becomes lower as the voltage

increases.

X C. Current density increases as voltage increases with charging current.

D. Voltage can be steeped up or stepped down to the required level using transformers.

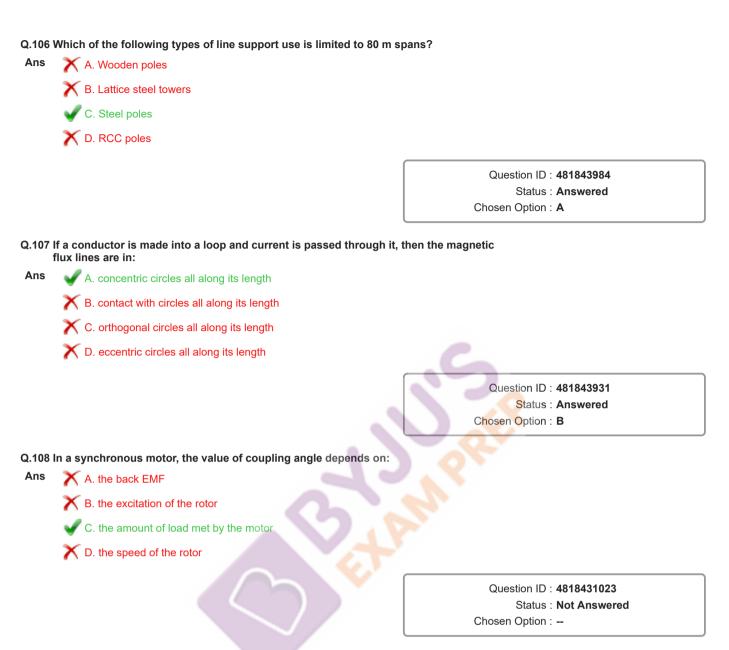
Question ID : **481843980** Status : **Answered** Chosen Option : **D** 

- Q.101 Hysteresis is the name given to the \_\_\_\_\_ of flux density behind the magnetising force, when a specimen of ferromagnetic material is taken through a cycle of magnetisation.
- Ans A. lagging A. lagging B. prime C. leading D. unit

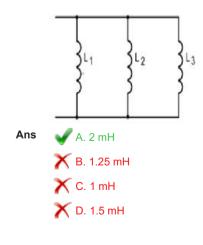
Question ID : **481843939** Status : **Answered** Chosen Option : **A** 

Q.102	An alternating voltage e = 400 sin 314t is applied to a device that resistance of 10 $\Omega$ to the flow of current in one direction, while p current in the opposite direction. Calculate the RMS value and ar respectively, for the current over one cycle.	reventing the flow of
Ans	🗙 A. 10 A and 15 A	
	🗙 B. 15 A and 10 A	
	🗙 C. 4 A and 7.5 A	
	✓ D. 20 A and 12.7 A	
		Question ID : 4818431012
		Status : Answered
		Chosen Option : C
Q.103	A 2 m long wire is bent into a circle. If the current flowing throug the magnetising force at the centre of the circle.	h the wire is 50 A, find
Ans	🗙 A. 65 AT/m	
	✔ B. 78.54 AT/m	
	🗙 C. 74.45 AT/m	
	🗙 D. 68.13 AT/m	
		Question ID : 4818431007
		Status : Answered
		Chosen Option : D
Q.104	In higher voltage transmission lines, beyond 33 kV, a is u costing economical.	used to make the
Ans	X A. strain insulator	
	X B. pin insulator	
	C. suspension insulator	
	X D. stay insulator	
		Question ID : 481843986
		Status : Answered
		Chosen Option : C
Q.105	In which of the following tests, which may be used to measure the impedance, should the reading be taken in a short time to avoid overheating?	
Ans	X A. Open-circuit characteristic test	
	B. Short-circuit characteristic test	
	X C. Primary circuit characteristic test	
	🗙 D. Secondary circuit characteristic test	

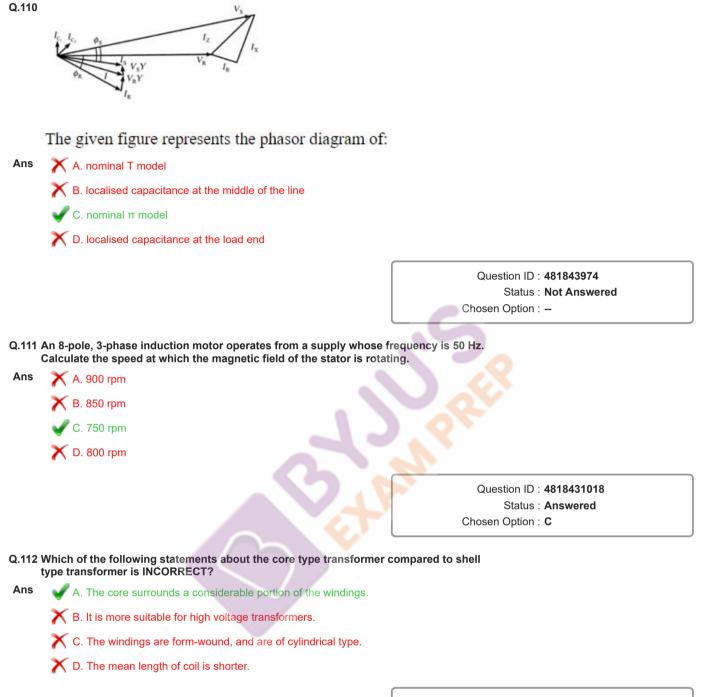
Question ID : **481843958** Status : **Answered** Chosen Option : **B** 



**Q.109** In the given circuit, determine the  $L_T$  if  $L_1 = 5$  mH,  $L_2 = 5$  mH and  $L_3 = 10$  mH.



Question ID : 4818431024
Status : Answered
Chosen Option : A



Question ID : **481843956** Status : **Not Answered** Chosen Option : --

Q.113 \_\_\_\_\_ is mostly caused by leakage over the insulators and is always neglected in a

 power transmission line.

 Ans

 Image: A strain of the strai

🗙 C. Conductance

🗙 D. Inductance

Question ID : **481843962** Status : **Not Answered** Chosen Option : --

Ans	Which of the following is an INCORRECT substation type X A. Primary grid substation	
	B. Mobile substation	
	✓ C. SF <sub>6</sub> gas insulated substation	
	X D. Step-up substation	
		Question ID : <b>4818431026</b> Status : <b>Not Answered</b> Chosen Option :
.115	Which of the following is NOT the advantage of AC?	
Ans	X A. Whenever it is necessary, AC supply can be easily c	onverted to obtain DC supply.
	X B. The voltages in AC system can be raised or lowered transformer.	with the help of a device called
	C. AC electrical motors are simple in construction, are eastern the maintenance point of view.	cheaper and require less
	V D. AC are attractive and can be used for electrofishing,	electroplating etc.
		Question ID : 481843943 Status : Not Answered Chosen Option :
2.116	Which of the following is NOT the advantage of gravity co	ontrol instruments?
Ans	A. Its scale is uniform.	
	B. It is cheaper than spring control instrument.	
	X C. It is not subjected to fatigue.	
	X D. It is unaffected by temperature variations.	
		Question ID : <b>481843953</b> Status : <b>Answered</b> Chosen Option : <b>A</b>
Q.117	Watt-hour meter can be produced using:	
Ans	X A. heating effect	
	X B. electromagnetic effect	
	C. induction effect	
	X D. chemical effect	
		Question ID : <b>481843952</b> Status : <b>Answered</b>

Chosen Option :  $\boldsymbol{C}$ 

Q.118 The magnitude of the magnetic field at a distance R from a long, straight wire carrying a current I is given by:

Ans  $\bigwedge$  A. B =  $\propto_0 I^{*2} \pi R$   $\checkmark$  B. B =  $\propto_0 I/2 \pi R$   $\bigwedge$  C. B = 2  $\pi R/I$  $\bigwedge$  D. B =  $I/\Pi r$ 

> Question ID : **4818431004** Status : **Not Answered** Chosen Option : --

Q.119 Which of the following laws is applied for mesh analysis of the network?



X D. Kirchhoff's junction rule

Question ID : 481843944 Status : Answered Chosen Option : A

Q.120 Ampere per turns per unit length of each part of a magnetic material depends upon the:

Ans X A. thickness of the laminations

- X B. frequency of variation of the voltage
- C. working flux density

X D. volume of the magnetic material

Question ID : **481843941** Status : **Answered** Chosen Option : **C**