



हिन्दुस्तान पेट्रोलियम कॉर्पोरेशन लिमिटेड

रजिस्टर्ड ऑफिस : 17, जमशेदजी टाटा रोड, मुंबई - 400 020.

HINDUSTAN PETROLEUM CORPORATION LIMITED

REGISTERED OFFICE: 17, JAMSHEDJI TATA ROAD, MUMBAI - 400 020.

Participant ID	
Participant Name	
Test Center Name	IHNC Mahaveer Bazar
Test Date	11/08/2021
Test Time	2:00 PM - 4:30 PM
Subject	ELECTRICAL ENGINEER

Section : English Language

Q.1 Select the misspelt word.

Ans

X 1. mischief

X 2. friend

X 3. Vein

🎻 4. Sliegh

Question ID: 50389010965

Status : **Answered**

Chosen Option : 1

Q.2 Pick the most appropriate synonym of:

despise

Ans

X 1. Cherish

X 2. Condone

3. hate

X 4. appreciate

Question ID: 50389010962

Status: Answered

Q.3	Choose the word which can be used in place of the words underlin	ed.	
	I avoid lifts because of my fear of closed and confined spaces.		
Ans	 1. Claustrophobia 		
	× 2. Acrophobia		
	X 3. Xenophobia		
	X 4. Cynophobia		
		Question ID : 50389010964 Status : Answered	
		Chosen Option : 4	
0.4	Select the most appropriate option to complete the sentence.		
Q.4			
Ans	My mother in 1990. 1. Had being graduated		
	X 2. Has had graduated		
	X 3. Was being graduated		
	4. Graduated		
	4. Gladuateu		
		Question ID : 50389010959	
		Status : Answered Chosen Option : 4	
Q.5	Select the most appropriate option to complete the sentence.		
	This is car and you should park it over		
Ans	1. There, their		
	2. Their, their		
	3. Their, there	69//	
	¥ 4. There, there		
		Question ID : 50389010960	
		Status : Answered	
		Chosen Option : 3	
Q.6	Which part of the sentence contains an error?		
	I did not want India to loose the match that day.		
Ans	X 1. I did not		
	X 2. that day		
	3. loose the match		
	X 4. want India to		
		Question ID : 50389010969	
		Status : Answered	
		Chosen Option : 2	

Q.7	Which part of the sentence contains an error?	
	Each and every person attending the meeting want to give a feedba	ack.
Ans	X 1. attending the meeting	
	X 2. Each and every person	
	√ 3. want to	
	X 4. give a feedback	
		2
		Question ID : 50389010970 Status : Answered
		Chosen Option : 3
Q.8	Choose the appropriate words to complete the phrase. Very soon,	l am going to run
Ano	money.	
Ans	X 1. Short to	
	× 2. Short for	
	X 3. Short in	
	4. short of	
		Question ID : 50389010967
		Status : Answered
		Chosen Option : 4
Q.9	Choose the correct preposition. You must cover your face	a mask when you
Ans	step out.	
Allo	1. with	
	X 2. Of X 2. ∴	
	X 3. in	
	X 4. through	271/1
		Question ID : 50389010955
		Status : Answered
		Chosen Option : 1
Q.10	Select the most appropriate option to complete the sentence.I have homework to do than my sister.	.
Ans	X 1. Least	
	2. Less	
	X 3. More less	
	X 4. Little	
		Question ID : 50389010958
		Status : Answered
		Chosen Option : 2

Q.11	Which pair of conjunctions can be used for this sentence?	
Ana	it rains, the weather will remain hot.	
Ans	1. from	
	2. whereas	
	3. Unless	
	X 4. so	
		Question ID : 50389010957
		Status : Answered
		Chosen Option : 3
Q.12	Pick the most appropriate antonym of:	
	blessing	
Ans	X 1. godsend	
	✓ 2. blight	
	X 3. Grace	
	X 4. boon	
		Out of the ID - 50000040000
		Question ID : 50389010963 Status : Answered
		Chosen Option : 4
Q.13	Fill in the blank using the most appropriate phrase.	
	Apple company keeps new models of phones in the now and then.	e global market every
Ans	1. Bringing out	
	X 2. Bringing down	
	X 3. Bringing with	
	X 4. Bringing off	
		Question ID : 50389010968 Status : Answered
		Chosen Option : 1
0.14	Select the misspelt word.	
Ans	✓ 1. Janiter	
	× 2. Calendar	
	X 3. Decorator	
	× 4. mentor	
	• •	
		Question ID : 50389010966 Status : Answered
		Chosen Option : 2

Q.15	Choose the most appropriate option to complete the sentence.	
	Messages are passed the brain and rest of the body th	rough the spinal cord.
Ans	X 1. Among	
	× 2. with	
	√ 3. between	
	× 4. at	
		Question ID : 50389010956 Status : Answered
		Chosen Option : 1
O 16	Pick the most appropriate synonym of:	
Q. 10	fundamental	
Ans		
	✓ 2. Basic	
	X 3. minor	
	X 4. transparent	
		Question ID : 50389010961
		Status : Answered
		Chosen Option : 2
Q.17	Choose the sentence which is grammatically correct.	
Ans	1. many Goa go to tourists in winters	
	X 2. many tourists go to winters in Goa	
	X 3. in many winters tourists go to Goa	
	4. many tourists go to Goa in winters	
		Question ID : 50389010971 Status : Answered
		Chosen Option : 4
Sectio	on : Quantitative Aptitude	
Q.1	The average weight of some students in a group is 42 kg. If 8 st weight 44 kg leave the group and 3 students having average we group, the average weight of the new group is 50 g more than the group. How many students were there in the group initially?	eight 48.25 kg join the
Ans	X 1. 54	
	× 2.58	
	X 3. 55	
	√ 4. 60	
		Question ID : 50389010995 Status : Answered
		Chosen Option : 3

Q.2 The average of 32 numbers is 29. If two numbers 24 and 16 are removed, then what is the average of the remaining numbers?

Ans

- 1. 29.6
- 2. 29.8
- **X** 3. 27
- **X** 4. 29

Question ID : 50389010994 Status : Answered

Chosen Option : 1

Q.3 Simplify the following expression.

$$\frac{9(12+x)(12-x)^3}{144-x^2} - \sqrt[2]{\frac{4x-28}{x-7}}$$

Ans

- \times 1. 40 3x
 - \times 2. 40 + 3x
- \times 3. 34 3x
- \checkmark 4. 32 3x

Question ID : 50389010977

Status : **Answered**

Chosen Option : 1

Q.4 A wall with dimensions 30 m × 0.4 m × 4 m is built with bricks of dimensions 25 cm × 16 cm × 10 cm. If one-eighth of the wall is mortar, then what is the cost of bricks used (in Rs.) at the rate of Rs. 6 per brick?

Ans

- **X** 1. 52500
- 2. 60000
- **X** 3. 62000
- 4. 63000

Question ID: 50389011000

Status : Answered

Q.5	On a certain sum, difference between the interests when interest is compounded 4-monthly and when compounded semi-annually at 12 percent per annum in 1 year is Rs. 632. What is the sum (in Rs.)?
Ans	X 1. 505000
	× 2. 480000
	X 3. 520000
	✓ 4. 500000

Question ID : 50389010998
Status : Answered
Chosen Option : 2

Q.6 The average monthly salary of a group of 15 persons is Rs. 62500. Three new persons join the group whose monthly salaries are Rs. 2000, Rs. 1200 and Rs. 1300 respectively more than the average salary of the initial group. What is the average monthly salary of the new group (in Rs.)?

Ans

1. 64500

2. 62750

X 3. 63700

X 4. 63800

Question ID : 50389010996 Status : Answered

Chosen Option: 2

Q.7 The selling price of an article is $\frac{8}{5}$ times of its cost price. Find the profit percentage.

Ans

X 1. 65

2.60

X 3, 45

X 1 55

Adda 247

Question ID : 50389010991 Status : Answered

Q.8 Simplify the following expression.

(0.235+0.325+7.05-0.401)

0.5-0.05

Ans



2. 160.2

X 3. 16.04

X 4. 16.55

Question ID : 50389010978

Status : Answered

Chosen Option: 1

Q.9 A 250 m long train crosses a platform of equal length as of the train in 30 seconds. What is the speed of the train in km/h?

Ans





Question ID: 50389010986

Status: Answered

Chosen Option: 1

Q.10 Curved surface area and volume of a cylinder are 3168 sq. cm and 22176 cu. cm. What is the height of the cylinder (in cm)?

Use $\pi = \frac{22}{7}$

Ans





Question ID : 50389011001

Status : Answered

Q.11 A can do a work in 6 days, B and C working together can do it in 4 days, A and C working together can do it in 3 days. In how many days B alone can do the work?

Ans

- **X** 1. 14
- **X** 2. 13
- **X** 3. 10
- **4**. 12

Question ID : 50389010990

Status : Answered

Chosen Option: 4

Q.12 Length and breadth of a rectangle are 5 cm and 3 cm. What is the area of that square (in sq. cm) which has the perimeter same as that of the rectangle?

Ans

- **X** 1.9
- **X** 2. 12.25
- **X** 3. 10.24
- 4. 16

Question ID : 50389010999

Status : Answered

Chosen Option: 4

Q.13 How many numbers are there between 20 and 50 which are divisible by 3 or have 3 as its digit?

Ans

- 1. 18
- **X** 2. 11
- **X** 3. 16
- X 4 10

Adda

Question ID : 50389010972 Status : Answered

Chosen Option : 1

Q.14 Six men can do a work in 6 days. How many days will 4 men take to do one-third of the

Ans

- \times 1. $1\frac{1}{2}$
- \times 2. $2\frac{1}{2}$
- **X** 3. 2
- 4.3

Question ID: 50389010988

Status : **Answered**

Ans	X 1. 638		
	× 2.744		
	3. 690		
	X 4. 696		
		Question ID : 50389 Status : Answ Chosen Option : 3	
Q.16	Sum of the squares of two natural nu the positive difference in their square	mbers is 97. If numbers differ by 5, then what is	
Ans	X 1. 85		
	2. 65		
	× 3.55		
	× 4.75		
		Question ID : 50389 Status : Answ Chosen Option : 2	
	They take 30 seconds to cross each of the ratio of the speed of the faster tra	och other when running in the same direction. Other when running in opposite directions. Find in to that of the slower train.	
Ans	X 1. 3:2		
	2. 4:3		
	✓ 3. 5:3✓ 4. 5:4	dda 24 7	
		Question ID : 50389	
		Status : Answ Chosen Option : 3	erea
		percent profit. However, during off season, he	
Ans	reduces his selling price by 20 percei	nt. What is his reduced profit percentage?	
	✓ 2. 12		
	× 3. 16		
	★ 4. 15		
		Question ID : 50389 Status : Answ Chosen Option : 1	

Q.15 Sum of two numbers is 53. If the numbers differ by 7, then what is the product of these two numbers?

Q.19 Simplify the following expression.

$$\frac{\sqrt[3]{\frac{729}{2197}} \times \sqrt[3]{\frac{512}{1331}}}{\sqrt[3]{343}}$$

Ans

- √ 1. ⁷²/₁₀₀₁
- \times 2. $\frac{216}{1001}$
- \times 3. $3\frac{75}{143}$
- \times 4. $9\frac{27}{143}$

Question ID: 50389010976

Status : **Answered**

Chosen Option: 1

Q.20 A can do a work in 8 days working 10 hours a day. B can do the same work in 10 days working 7 hours a day. How many days will they take to complete the work if they work together for 8 hours a day?

Ans

- \times 1. $4\frac{2}{5}$
- X 2.4
- \times 3. $4\frac{1}{4}$
- $\sqrt{4.4^{\frac{2}{3}}}$

Adda 247

Question ID: 50389010989

Status : **Answered**

Chosen Option: 4

Q.21 Total monthly salary of A and B is Rs. 73500. If A gets 80 percent more than B, then how much (in Rs.) is A paid monthly?

Ans

- **1**. 47250
- 2. 66150
- **X** 3. 26250
- **X** 4. 52000

Question ID : 50389010985

Status: Answered

Q.22 A sum of Rs. 64800 was invested by Ramesh and Karan together to start a small business. They earned a profit of Rs. 13500 at the end of the year. Ramesh received Rs. 7500 as his share in the profit. If profit was divided in the ratio of the sums invested, how much money (in Rs.) was invested by Karan?

Ans

- 1. 28800
- 2. 36000
- **X** 3. 28000
- **X** 4. 32400

Question ID : 50389010982

Status : Answered

Chosen Option: 1

Q.23 Sum of the digits of a 2-digit number is 7. If number obtained by interchanging the digits is 9 more than the original number, then what is the sum of the squares of the digits of the number?

Ans

- **X** 1. 49
- **X** 2. 37
- **X** 3. 29
- 4. 25

Question ID : 50389011003 Status : Answered

Chosen Option: 4

Q.24 Subtract the reciprocal of the product of the numbers $2\frac{1}{3}$, $1\frac{1}{5}$, $\frac{3}{8}$, $1\frac{2}{7}$, $4\frac{2}{7}$, 9 from $\frac{1}{5}$.

Ans

- \times 1. $\frac{27}{5}$
- $\sqrt{2}$. $\frac{5}{27}$
- \times 3. $-67\frac{3}{10}$
- \times 4. $\frac{2}{135}$

Adda[24]7

Question ID : 50389010980 Status : Answered

Chosen Option: 2

Q.25 A box contains 50 sweets (Laddu). For 600 sweets (Laddu) how many boxes are required?

Δne

- **1**. 12
- **X** 2. 15
- **X** 3. 11
- **X** 4. 10

Question ID: 50389010983

Status : Answered

Q.26 A shopkeeper earns a profit of 25 percent after allowing 25 percent discount. Find his profit percentage if he allows only 16 percent discount.

Ans

- \times 1. $28\frac{4}{7}$
- 2.40
- **X** 3. 42
- **X** 4. 32

Question ID : 50389010992

Status : Answered

Chosen Option: 4

Q.27 If two numbers are in the ratio $\frac{1}{4}:\frac{1}{5}$, then by what percentage is the second number less than the first number?

Ans

- **X** 1. 25
- **2**. 20
- **X** 3. 30
- **X** 4. 28

Question ID : 50389010984

Status : Answered

Chosen Option: 2

Q.28 Sunayana spent 0.05 part of her savings in Stocks, 0.4 part in Fixed Deposits, 0.4 part amounting to Rs. 36000 in gold ornaments and remaining she kept as cash. How much cash (in Rs.) has she kept?

Ans

- X 1. 13000
- 2. 13500
- **X** 3. 12745
- **X** 4. 13850

Adda 247

Question ID : 50389010979

Status : **Answered**

Chosen Option: 2

Q.29 If $x^4 - 1 = 2400$, $y^4 + 1 = 4097$, x, y > 0 find the value of $y^3 - x^3$.

Ans

- **X** 1. 195
- **2**. 169
- **X** 3. 855
- **X** 4. 15

Question ID : 50389010973

Status : **Answered**

Q.30

If p = 4 and q = 3, then find the value of $(2p - 3q)^{2p-q} \div (3p - 2q)^{p-2q}$.

Ans

- **√** 1. −36
- \times 2. $-\frac{5}{36}$
- \times 3. $\frac{5}{12}$
- X 4. 36

Question ID: 50389010974

Status : **Answered**

Chosen Option: 2

Q.31 Following table shows the earning (in Rs. 1000) of 5 persons A, B, C, D and E over the months.

What was the average earning (in Rs.) of D over the months?

Month/	March	April	May	June	July
Persons					
A	24.2	25.5	25.8	26	26.5
В	23.5	24.2	25.5	27	26.8
С	25.5	24.8	26.5	24	28.2
D	24.3	24.7	25.2	27	28.8
E	25	26.9	27.6	27.5	26.2

Ans

- **X** 1. 26100
- 2. 25750
- **X** 3. 25200
- 4. 26000

Adda 247

Question ID : 50389011005 Status : Answered

Chosen Option: 4

Q.32 A sum of Rs. 34000 is given to A and B in such a way that three-fifth of share of A is equal to one-fourth of share of B. How much more money (in Rs.) B receives in comparison to A?

Ans

- **1**. 14000
- **X** 2. 10000
- **X** 3. 17000
- **X** 4. 24000

Question ID : 50389010981

Status : **Answered**

Q.33	Find the smallest number which when divided by 8, 7 and 6 leave re 4 respectively.	mainders 6, 5 and
Ans	X 1. 170	
	× 2. 163	
	X 3. 162	
	✓ 4. 166	
		0 11 12
		Question ID : 50389010975 Status : Answered
		Chosen Option : 4
Q.34	Sumit borrowed certain sum on simple interest at 6 percent per ann	um for the first 1st
	year, at 7 percent for the next 2 years, at 8 percent for the next 3 year percent for the period beyond 6 years. If he pays Rs. 3200 as total in 8 years, then what was the sum (in Rs.) that he borrowed?	rs and at 10
Ans	X 1. 4850	
	2 . 5000	
	X 3. 4800	
	X 4. 5200	
		Question ID : 50389010997
		Status : Answered
		Chosen Option : 1
Casti	an I Intelligative Detention Took	
	on : Intellectual Potential Test	
	on : Intellectual Potential Test Maya is Babu's wife. Jaya and Daya are siblings <mark>. Ajay is Daya's hus</mark> Sujay is Babu's son and Ajay's only brother. How is Daya related to	
	Maya is Babu's wife. Jaya and Daya are siblings. Ajay is Daya's hus	
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Q.1	Maya is Babu's wife. Jaya and Daya are siblings. Ajay is Daya's hus Sujay is Babu's son and Ajay's only brother. How is Daya related to 1. Sister-in-law	
Q.1	Maya is Babu's wife. Jaya and Daya are siblings. Ajay is Daya's hus Sujay is Babu's son and Ajay's only brother. How is Daya related to 1. Sister-in-law 2. Mother-in-law	
Q.1	Maya is Babu's wife. Jaya and Daya are siblings. Ajay is Daya's hus Sujay is Babu's son and Ajay's only brother. How is Daya related to 1. Sister-in-law 2. Mother-in-law 3. Daughter	Maya? 247
Q.1	Maya is Babu's wife. Jaya and Daya are siblings. Ajay is Daya's hus Sujay is Babu's son and Ajay's only brother. How is Daya related to 1. Sister-in-law 2. Mother-in-law 3. Daughter	
Q.1	Maya is Babu's wife. Jaya and Daya are siblings. Ajay is Daya's hus Sujay is Babu's son and Ajay's only brother. How is Daya related to 1. Sister-in-law 2. Mother-in-law 3. Daughter	Maya? Question ID : 50389011025
Q.1	Maya is Babu's wife. Jaya and Daya are siblings. Ajay is Daya's hus Sujay is Babu's son and Ajay's only brother. How is Daya related to 1. Sister-in-law 2. Mother-in-law 3. Daughter 4. Daughter-in-law	Question ID : 50389011025 Status : Answered Chosen Option : 2
Q.1 Ans	Maya is Babu's wife. Jaya and Daya are siblings. Ajay is Daya's hus Sujay is Babu's son and Ajay's only brother. How is Daya related to 1. Sister-in-law 2. Mother-in-law 3. Daughter 4. Daughter-in-law The sum of two numbers is 99; and their difference is 27. Which is the among them?	Question ID : 50389011025 Status : Answered Chosen Option : 2
Q.1	Maya is Babu's wife. Jaya and Daya are siblings. Ajay is Daya's hus Sujay is Babu's son and Ajay's only brother. How is Daya related to 1. Sister-in-law 2. Mother-in-law 3. Daughter 4. Daughter-in-law The sum of two numbers is 99; and their difference is 27. Which is the among them? 1. 27	Question ID : 50389011025 Status : Answered Chosen Option : 2
Q.1 Ans	Maya is Babu's wife. Jaya and Daya are siblings. Ajay is Daya's hus Sujay is Babu's son and Ajay's only brother. How is Daya related to 1. Sister-in-law 2. Mother-in-law 3. Daughter 4. Daughter-in-law The sum of two numbers is 99; and their difference is 27. Which is tramong them? 1. 27 2. 72	Question ID : 50389011025 Status : Answered Chosen Option : 2
Q.1 Ans	Maya is Babu's wife. Jaya and Daya are siblings. Ajay is Daya's hus Sujay is Babu's son and Ajay's only brother. How is Daya related to 1. Sister-in-law 2. Mother-in-law 3. Daughter 4. Daughter-in-law 4. Daughter-in-law 1. 27 2. 72 3. 36	Question ID : 50389011025 Status : Answered Chosen Option : 2
Q.1 Ans	Maya is Babu's wife. Jaya and Daya are siblings. Ajay is Daya's hus Sujay is Babu's son and Ajay's only brother. How is Daya related to 1. Sister-in-law 2. Mother-in-law 3. Daughter 4. Daughter-in-law The sum of two numbers is 99; and their difference is 27. Which is tramong them? 1. 27 2. 72	Question ID : 50389011025 Status : Answered Chosen Option : 2
Q.1 Ans	Maya is Babu's wife. Jaya and Daya are siblings. Ajay is Daya's hus Sujay is Babu's son and Ajay's only brother. How is Daya related to 1. Sister-in-law 2. Mother-in-law 3. Daughter 4. Daughter-in-law 4. Daughter-in-law 1. 27 2. 72 3. 36	Question ID : 50389011025 Status : Answered Chosen Option : 2
Q.1 Ans	Maya is Babu's wife. Jaya and Daya are siblings. Ajay is Daya's hus Sujay is Babu's son and Ajay's only brother. How is Daya related to 1. Sister-in-law 2. Mother-in-law 3. Daughter 4. Daughter-in-law 4. Daughter-in-law 1. 27 2. 72 3. 36	Question ID : 50389011025 Status : Answered Chosen Option : 2

Q.3	Select the option that is related to the third term in the same way as the second term is related to the first term.
	Cow: Calf:: Lion:?
Ans	√ 1. Cub
	× 2. Puppy
	X 3. Lioness
	X 4. Simba
	Question ID : 50389011006 Status : Answered
	Chosen Option : 1
Q.4	Select the number that will replace the blanks () and complete the number series
	correctly.
Ans	3, 7, 13, 31, 43, 57, ?
Allo	★ 1.64
	2.72
	✓ 3.73✓ 4.60
	4. 63
	Question ID : 50389011028
	Status : Answered Chosen Option : 2
	Choosii epileti . 2
Q.5	What is the maximum number of squares and rectangles in this image?
	HAdda 247
Ans	X 1. 17
	2. 22
	X 3. 13
	4. 21
	Question ID : 50389011035
	Status : Answered
	Chosen Option : 1

Q.6 Select the number that will come next in the number series. 2, 3, 6, 11, 18, ? Ans **X** 1. 21 **2**. 27 **X** 3. 24 **X** 4. 30 Question ID: 50389011027 Status : Answered Chosen Option: 2 What is the total number of cubes in the 3-D figure given below? Ans **X** 3.8 **X** 4. 14 Question ID : 50389011033 Status: Answered Chosen Option: 2 Q.8 Three out of the following four options share a similarity. Select the option that is different from the others. Ans 🗸 1. BERRY : EBRYR X 2. GRAPE : RGEPA X 3. APPLE : PAELP

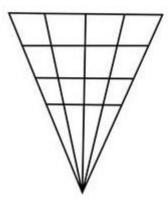
X 4. GUAVA : UGAVA

Question ID : 50389011014 Status : Answered

Ans **4** 1. 5994 2. 5694 **X** 3. 994 **X** 4. 594 Question ID: 50389011031 Status: Answered Chosen Option: 1 Q.10 Select the option that is related to the third term in the same way as the second term is related to the first term. 25:49::121:? Ans **X** 1. 144 **2**. 169 **X** 3. 196 **X** 4. 122 Question ID: 50389011008 Status: Answered Chosen Option: 2 Q.11 Select the option that is similar to the key word given below: Mango Ans \chi 1. Turnip X 2. Garlic 3. Litchee Question ID: 50389011019 Status: Answered Chosen Option: 3 Q.12 If x% of x is 49, what is the value of x? Ans **X** 1.60 **2**. 70 **X** 3. 51 Question ID: 50389011030 Status: Answered Chosen Option: 2

Q.9 What is the difference between the place value and the face value of 6 in 756954?

Q.13 What is the maximum number of triangles in this image?



Ans



X 2. 2°

X 3. 36

X 4, 56

Question ID : 50389011034

Status : Answered

Chosen Option: 1

Q.14 In a code language, BED is coded as 254; GAB is coded as 712; and HID is coded as 894. Then, how would FIG be coded in that language?

Ans

X 1. 798

2. 697

X 3. 687

X 4 677

Adda

Question ID : 50389011016 Status : Answered

Chosen Option: 2

Q.15 In a code language, MAP is coded as LBQ; PEN is coded as OFO; and NOT is coded as MPU. Then, how would TUB be coded in that language?

Ans

X 1. SWC

X 2. TVC

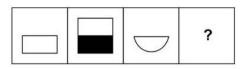
√ 3. SVC

X 4. STC

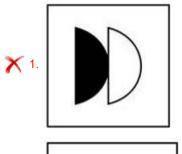
Question ID : 50389011015

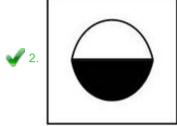
Status : **Answered**

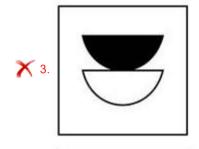
Q.16 Select the option that is related to the third term in the same way as the second term is related to the first term.

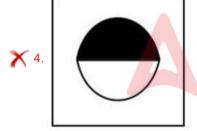


Ans











Question ID: 50389011038 Status: Answered

Chosen Option: 2

Q.17 Select the number that will come next in the number series.

3, 5, 8, 10, 13, 15, ?

Ans





X 4. 19

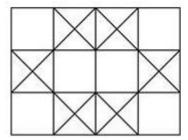
Question ID: 50389011026

Status: Answered

Q.18	Neel is Deepa's only brother. Heera is Neel's mot How is Anuj related to Neel?	her. Anuj is Heera's	s only son-in-law.
Ans	1. Sister's husband		
	× 2. Father-in-law		
	X 3. Wife's brother		
	X 4. Brother		
			Question ID : 50389011024 Status : Answered
			Chosen Option : 2
0.40	In a code learning TRAIN is coded as CCCI M. F	DI FAD is saded as	OMODO: and
Q.19	In a code language, TRAIN is coded as SSCLM; F STOCK is coded as RUQFJ. Then, how would WH		
Ans	√ 1. VIQOD		
	× 2. VJQND		
	X 3. VIPND		
	X 4. VIQPMF		
			Question ID : 50389011018
			Status : Answered
			Chosen Option : 1
Q.20	Three out of the following four options share a si	imilarity. Select the	option that is
Ans	different from the others.		
Alla	1. Ten		
	2. Two		
	X 3. Six		
	√ 4. One		J 4 /
			Question ID : 50389011012
			Status : Answered Chosen Option : 1
			Chosen Option . 1
Q.21	Select the option that is related to the third term related to the first term.	in the same way as	the second term is
	27 : 256 : : 3125 : ?		
Ans	✓ 1. 46656		
	X 2. 7776		
	× 3. 279936		
	× 4. 259824		
	• • • • • • • • • • • • • • • • • • • •		
			Question ID : 50389011010
			Status : Answered Chosen Option : 4

Q.22 Select the option that will replace the question mark and complete the series correctly. ? Ans Question ID: 50389011037 Status : Answered Chosen Option : 1

Q.23 What is the maximum number of squares in this image?



Ans

X 1. 19

2. 24

3. 2

X 4. 20

Question ID : 50389011036 Status : Answered

Chosen Option: 3

Q.24 Select the option that is similar to the pair given below:

Car : Formula One

Ans

X 1. World Cup : Bicycle

X 2. Boat : Yacht

3. Horse : Derby

X 4. Leisure biking : Motorcycle

Question ID : 50389011022

Status : Answered

Chosen Option: 3

Q.25 If x is the sum of the smallest and the largest 2-digit prime numbers, what is the value of x?

Ans

X 1. 102

X 2. 99

X 3. 112

4. 108

Question ID: 50389011032

Status : Answered

Three out of the following figures (A, B, C and D) are different from the question figure Q. Select the option that is similar to the question figure Q. Q.26 **X** 1. B Ans **X** 2. C Question ID: 50389011039 Status: Answered Chosen Option: 4 Q.27 In a code language, mango is called milk; milk is called tomato; tomato is called kiwi; and kiwi is called beet. Then, which one of the following will definitely be white in colour? Ans 1. Tomato X 2. Mango X 3. Kiwi X 4. Beet Question ID: 50389011017 Status: Answered Chosen Option: 1 Q.28 Select the option that is similar to the key word given below: Leopard Ans 🟋 1. Bear **X** 2. Fox √ 3. Tiger X 4. Rhinoceros Question ID: 50389011020 Status: Answered Chosen Option: 3

Q.29 Select the option that is similar to the pair given below: Car: Garage Ans X 1. Auto rickshaw : Footpath X 2. Bus : Shore X 3. Aeroplane : Airport 4. Train : Yard Question ID: 50389011021 Status : Answered Chosen Option: 4 Q.30 Select the option that is related to the third term in the same way as the second term is related to the first term. Zoology: Animals:: Ornithology:? Ans X 1. Snakes X 2. Virus X 3. Plants 4. Birds Question ID: 50389011009 Status: Answered Chosen Option: 4 Q.31 Select the option that is related to the third term in the same way as the second term is related to the first term. Hillock: Mountain:: Sea:? Ans X 1. Bay X 3. Lake 4. Ocean Question ID: 50389011011 Status: Answered Chosen Option: 4 Q.32 Mary and Lily are sisters. David is Mary's son. Patricia is David's only daughter. How is Mary related to Patricia? Ans \chi 1. Granddaughter 2. Grandmother 3. Daughter X 4. Mother Question ID: 50389011023 Status: Answered Chosen Option: 2

Q.33 Select the option that is related to the third term in the same way as the second term is related to the first term.

AK : CM :: HR : ?

Ans

- X 1. KT
- X 2. JS
- **√** 3. JT
- X 4. PM

Question ID : 50389011007

Status : Answered

Chosen Option: 3

Q.34 Three out of the following four options share a similarity. Select the option that is different from the others.

Ans

- X 1. Thames : River
- X 2. Atlantic : Ocean
- 3. Sahara : Plateau
- X 4. Andes : Mountain Range

Question ID : 50389011013

Status : **Answered**

Chosen Option: 3

Section : Domain Knowledge

Q.1 Which of the Following is NOT a characteristic of PMMC instruments?

Ans

- 1. Non-uniform scale
- 2. Used for DC measurements only
- X 3. No hysteresis loss
- X 4. High accuracy

Question ID : 50389011104

Status : **Answered**

Chosen Option: 1

Q.2 Two quadrant type B chopper operates in:

Ans

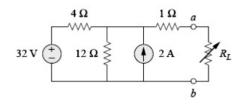
- X 1. 1st and 2nd quadrants
- √ 2. 1st and 4th quadrants
- X 3. 3rd and 4th quadrants
- X 4. 2nd and 4th quadrants

Question ID : 50389011087

Status : **Answered**

Q.3	Exponential signal is an example of	signal.	
Ans	X 1. Deterministic and periodic		
	2. Deterministic and non-periodic		
	X 3. Random and periodic		
	X 4. Random and non-periodic		
			Question ID : 50389011061
			Status : Answered
			Chosen Option : 2
Q.4	Amplitude of antisymmetric signal is	at the origin.	
Ans	1. Either positive or negative but not zero		
	× 2. Always positive		
	★ 3. Always negative 1. **Text		
	√ 4. Always zero		
			Outsetier ID + 50200044050
			Question ID : 50389011059 Status : Answered
			Chosen Option : 2
Q.5	A power plant has the annual factors given as: load factor = 50 percent, Use factor = 60 percent. If maxin reserve capacity over and above the peak load. X 1.6 MW X 2.28 MW X 3.14 MW 4.8 MW	factor = 70 perc num demand is	Question ID : 50389011070 Status : Answered Chosen Option : 1
Q.6	An RC phase shift oscillator uses capacitors of $(\frac{1}{\sqrt{6\pi}})$ pf. Find the value kHz.	e of resistance 'R' to p	produce frequency of 1000
Ans	kHz. V6π 1. 50 kΩ		
	✓ 2. 500 kΩ		
	× 3. 25 kΩ		
	× 4. 250 kΩ		
	* N		
			Question ID : 50389011092 Status : Answered
			Chosen Option : 2

Q.7 Find the value of the Thevenin's resistance R_{TH} for the circuit to the left of terminals a-b:



Ans

- 🗙 1. 14 Ω
- 🗶 2. 6 Ω
- 🗙 3. 12 Ω
- 🗸 4. 4 Ω

Question ID : 50389011046 Status : Answered

Chosen Option: 4

Q.8 Electrostatic type instruments are primarily used as _____

Ans

- X 1. Wattmeters
- 2. Voltmeters
- X 3. Ohmmeter
- X 4. Ammeters

Question ID : 50389011106

Status : **Answered**

Chosen Option : 1

Q.9 An alternator has a per unit impedance of 0.9 p.u. to a base of 20 MVA, 33 kV, Then the p.u. impedance to the base of 60 MVA and 11 kV will be ______.

Ans

- 1. 32.4
- **X** 2. 8.1
- **X** 3. 16.2
- 4. 24.3

Question ID : 50389011119

Status : Answered

Chosen Option: 4

Q.10 Which of the following method of tariff was proposed by John Hopkinson?

Ans

- 🎻 1. Two part tariff
- X 2. Three part tariff
- X 3. Flat demand rate
- X 4. Block meter rate

Question ID : 50389011069

Status : Answered

Q.11 A 200 kVA single phase transformer with a voltage ratio of 6600/660 V has following winding resistances: $R_1 = 1.75 \Omega \text{ and } R_2 = 0.015 \Omega.$ Find the resistance referred to the high voltage winding. Ans Χ 1. 1.90 Ω 2. 1.60 Ω 🤇 3. 16.75 Ω 4. 3.25 Ω Question ID: 50389011123 Status: Answered Chosen Option: 4 Q.12 In case of scaling of vector, let α be the scalar with which the vector is multiplied. If $\alpha = -1$. It means Ans 1. Magnitude remains same and direction of the vector reverses X 2. Magnitude changes and direction of the vector remains same X 3. Magnitude and direction of the vector, both remain same X 4. Magnitude becomes zero and direction of the vector reverses Question ID: 50389011053 Status: Answered Chosen Option: 1 Q.13 Dual of Norton's theorem is Ans X 1. Superposition theorem 2. Thevenin's theorem 3. Millman's theorem X 4. Maximum power transfer theorem Question ID: 50389011041 Status: Answered Chosen Option: 2 Q.14 In an oil circuit breaker, due to heat the oil decomposes and the gases are liberated. Which of the following gas is usually NOT liberated in this process? Ans 1. Acetylene 2. Methane X 3. Hydrogen 4. Ammonia Question ID: 50389011076 Status: Answered Chosen Option: 4

Q.15 Which of the following equation is sometimes referred to as the Ohm's law of magnetic circuit?

Ans

- \checkmark 1. $\Phi = \frac{NI}{S}$
- \times 2. $H = \frac{NI}{l}$
- \times 3. $B = \frac{\Phi}{A}$
- \times 4. $\mu = \frac{B}{H}$

Question ID : 50389011050

Status : Answered

Chosen Option: 1

Q.16 In a 3-core cable there are _____ capacitances formed.

Ans

- **X** 1.9
- **2**.6
- **X** 3.3
- X 4.4

Question ID: 50389011072

Status : Answered

Chosen Option: 2

Q.17 A 3-phase 4 pole induction motor is supplied from a 50 Hz source. Find the rotor frequency when the rotor runs at 600 rpm.

Ans

- 1. 30 Hz
- X 2. 25 Hz
- X 3. 20 Hz
- X 4. 50 Hz

4|7|

Question ID : 50389011118 Status : Answered

Chosen Option: 1

Q.18 Convert (B68)₁₆ in to equivalent octal number.

Ans

- √ 1. (5550)₈
- × 2. (4550)₈
- × 3. (5555)₈
- × 4. (5050)₈

Question ID: 50389011094

Status : **Answered**

Q.19 If a voltage $v = 10 \cos (100t + 30^{\circ})$ is applied to a 50 μ F capacitor, calculate the current through the capacitor.

Ans

- X 1. 50 cos (100t+30°) mA
- √ 2. 50 cos (100t+120°) mA
- X 3. 50 cos (100t -120°) mA
- X 4. 50 cos (100t-30°) mA

Question ID: 50389011047

Status : **Answered**

Chosen Option: 2

Q.20 The breakaway points of the root-loci of a polynomial equation can occur

Ans

- 1. Anywhere on the complex plane
- X 2. On real axis only
- X 3. At origin only
- X 4. On imaginary axis only

Question ID: 50389011097

Status : Answered

Chosen Option: 2

Q.21 A 9 V battery supplies 1 mA current in a series circuit of three resistors R_1 , R_2 and R_3 . If the voltage drops across R_1 , R_2 and R_3 are 1 V, 2 V and 6 V respectively, find the values of R_1 , R_2 and R_3 .

Δns

- \checkmark 1. $R_1 = 1$ kΩ, $R_2 = 2$ kΩ and $R_3 = 6$ kΩ
- \times 2. $R_1 = 6 \text{ k}\Omega$, $R_2 = 2 \text{ k}\Omega$ and $R_3 = 1 \text{ k}\Omega$
- \times 3. $R_1 = 2 \text{ k}\Omega$, $R_2 = 3 \text{ k}\Omega$ and $R_3 = 4 \text{ k}\Omega$
- \times 4. $R_1 = 4 \text{ k}\Omega$, $R_2 = 2 \text{ k}\Omega$ and $R_3 = 3 \text{ k}\Omega$

Question ID: 50389011043

Status : **Answered**

Chosen Option: 1

Q.22 Which of the following is NOT a VALID advantage of shell type transformer over core type transformer?

Ans

- 1. Losses are less
- 2. Maintenance is easy
- 3. Mechanical strength is high
- 4. Copper requirement is less

Question ID: 50389011114

Status : **Answered**

Q.23 A single phase half bridge inverter has a supply voltage of 100 V dc and a resistive load of 4 Ω . What will be the RMS output voltage?

Ans

- **√** 1. 50 V
- X 2. 90 V
- X 3. 45 V
- X 4. 70.71 V

Question ID : 50389011083 Status : Answered

Chosen Option : 3

Q.24 Which of the following operation of the discrete time system is NOT memoryless?

Ans

- X 1. Signal multiplier
- X 2. Constant multiplier
- 3. Unit delay
- X 4. Adder

Question ID : 50389011062 Status : Answered

Chosen Option: 3

Q.25 While incorporating lead-compensation network, the gain factor of the amplifier is given as ______.

Ans

- \times 1. $\frac{1}{\alpha^2}$
- Χ 2. α
- \times 3. α^2
- **√** 4. 1

Adda 247

Question ID: 50389011101

Status : Answered

Chosen Option: 4

Q.26 In a coal based thermal power plant, electrostatic precipitator is required for:

Ans

- X 1. Coal firing
- X 2. Coal handling
- 3. Ash handling
- X 4. Coal preparation

Question ID: 50389011068

Status : **Answered**

Ans

- X 1. Poisson's law
- 2. Ampere's circuital law
- X 3. Gauss's law
- X 4. Biot-Savart law

Question ID : 50389011057

Status : Answered

Chosen Option: 2

Q.28 Which of the following characteristic is not desirable in measuring instrument?

Ans

- X 1. Linearity
- X 2. Repeatability
- 3. Drift
- X 4. Accuracy

Question ID : 50389011105

Status : Answered

Chosen Option: 3

Q.29 Calculate the resolution of a 3-digit 0 – 1 V digital voltmeter.

Ans

- 1. 0.001
- **X** 2. 0.1
- **X** 3. 0.0001
- **X** 4. 0.01

Adda

Question ID : 50389011109

Status : Answered

Chosen Option: 4

Q.30 Which of the following is an example of static system?

Ans

- X 1. Y(n) = x(-n)
- \times 2. y(n) = 3x(n) x(n-2)
- $\sqrt{3}$ y(n) = n x(n) + b x²(n)
- \times 4. $Y(n) = x(n^2)$

Question ID: 50389011063

Status : **Answered**

Q.31 Ans	Which of the following is not an example of Vector quantity? 1. Mass	
	× 2. Acceleration	
	X 3. Magnetic field intensity	
	X 4. Electric field intensity	
	• •	
		Question ID : 50389011051 Status : Answered
		Chosen Option : 1
Q.32	For a transistor $\beta_{dc} = 49$. Find the value of α .	
Ans	✓ 1. 0.98	
7110	× 2. 0.9	
	× 3. 0.99	
	X 4. 0.09	
	4. 0.09	
		Question ID : 50389011090
		Status : Answered Chosen Option : 1
Q.33	For a synchronous generator supplying a balanced 3-phase load, t reaction flux is in magnitude and rotates at	he armature speed.
Ans	1. Variable, Sub-synchronous	
	2. Constant, Sub-synchronous	
	→ 3. Variable, Super-synchronous	
	✓ 4. Constant, Synchronous	
		Outsting ID + 50200044420
		Question ID : 50389011120 Status : Answered
		Chosen Option : 4
Q.34	With reference to the divergence, which of the following statement	is WRONG?
Ans	1. Divergence of a vector is a vector quantity	
	X 2. Divergence operation can be represented by del operator	
	X 3. Divergence of a scalar has no meaning	
	X 4. Expressions for divergence in different co-ordinate systems are different	
		Question ID : 50389011056
		Status : Answered
		Chosen Option : 1

1. Traffic light control system 2. Voltage stabilizer X 3. Bread toaster X 4. TV remote control Question ID: 50389011096 Status: Answered Chosen Option: 2 Q.36 With reference to wave windings used for DC generator, state whether the following statements are TRUE or FALSE.1. Wave winding is used for high current, low voltage machines2. The efficiency of wave winding is higher as compared to lap winding Ans X 1. TRUE, TRUE 2. FALSE, TRUE X 3. TRUE, FALSE X 4. FALSE, FALSE Question ID: 50389011122 Status: Answered Chosen Option: 4 **Q.37** A Thevenin's circuit has $V_{TH} = 20 \text{ V}$ and $R_{TH} = 20 \Omega$. Find the maximum power transferred to a load resistance of 20 Ans X 1. 10 W X 2.4 W / 3.5 W X 4.8 W Question ID: 50389011048 Status: Answered Chosen Option: 3 Q.38 For a DC motor, gross mechanical power developed by the motor is maximum and the motor is supplied through a 220 V source. What will be back emf? Ans X 1. 55 V X 2. 220 V X 3. 27.5 V / 4. 110 V Question ID: 50389011116 Status: Answered Chosen Option: 4

Q.35 Which of the following system is an example of closed loop control system?

Ans

Q.39 Which of the following circuit is used to obtain pulse gate triggering?

Ans

- X 1. Resistive triggering circuit
- X 2. Resistance-capacitance triggering circuit
- X 3. Diac-Triac circuit
- 4. UJT based relaxation oscillator circuit

Question ID: 50389011085

Status : Answered

Chosen Option: 4

Q.40 A single phase half wave controlled rectifier is supplied through a 230 V, 50 Hz supply. What will be the maximum output voltage possible?

Ans

$$\times$$
 1. $\frac{230}{\pi}$

$$\checkmark$$
 2. $\frac{\sqrt{2} \times 230}{\pi}$

$$\times$$
 3. $\frac{\sqrt{2} \times 230}{2\pi}$

$$\times$$
 4. $\frac{230}{2\pi}$

Question ID : 50389011084

Status: Answered

Chosen Option: 2

Q.41 A 0 to 200 V voltmeter has a guaranteed accuracy of 0.5 percent of full scale deflection. The voltage measured by the instrument is 50 V. Find the limiting error.

Ans

- X 1. 0.25 percent
- X 2. 0.5 percent
- X 3. 1 percent
- 4. 2 percent

Question ID: 50389011112

Status : **Answered**

Chosen Option: 4

Q.42 In wire-wound standard resistor, the bifilar winding is adopted to reduce

Ans

- X 1. Aging effect
- 2. Self-inductive effect
- X 3. Stray capacitance
- X 4. Skin effect

Question ID: 50389011111

Status : **Answered**

Q.43	In induction type energy meter, error is caused due to over compensation for friction.	
Ans	X 1. Phantom loading	
	2. Creeping	
	X 3. Breaking error	
	X 4. Phase angle error	
		Question ID : 50389011108 Status : Answered Chosen Option : 2
Q.44	The directional element in the reactance relay is so designed that it angle is	s maximum torque
Ans		
	★ 4. 0°	
		Question ID : 50389011074 Status : Answered Chosen Option : 3
Q.45	Which of the following is not a VALID advantage of digital filters over	er analog filters?
Ans	X 1. Higher flexibility	
	X 2. Linear phase response	
	X 3. Less maintenance	
	4. Higher bandwidth	Question ID : 50389011066 Status : Answered Chosen Option : 2
Q.46	Which of the following condition must be satisfied to measure the p 3-phase load, using only 2 wattmeters?	power delivered to a
Ans	1. Load must be unbalanced	
	2. Load must be connected to the source through 4-wires	
	3. Load must be connected to the source through 3-wires	
	X 4. Load must be balanced	
		Question ID : 50389011107 Status : Answered Chosen Option : 3

Q.47 For series connected SCRs, static equalization is obtained with the help of 1. Resistors only 2. Capacitors only 3. Resistors, capacitors and diodes 4. Resistors and capacitors

Question ID : 50389011081 Status : Answered Chosen Option : 4

Q.48 For a second order system having its transfer function as: $H(s) = 25 / (s^2 + 8s + 25)$

Find the damping factor.

Ans

- **X** 1. 0.6
- **X** 2. 0.5
- **X** 3. 0.4
- 4. 0.8

Question ID : 50389011100 Status : Answered

Chosen Option: 4

Q.49 In a hollow tube, if the velocity of air is constant everywhere inside the tube then the divergence of the velocity field is ______.

Ans

- X 1. Infinite
- X 2. Negative
- 3. Zero
- X 4 Unity

Adda 247

Question ID : 50389011054
Status : Answered

Chosen Option: 3

Q.50 A single-phase transformer has 200 primary and 700 secondary turns. If the primary voltage is 100 V, find the secondary voltage.

Ans

- X 1. 175 V
- X 2.700 V
- X 4. 28.5 V

Question ID : 50389011115 Status : Answered

Q.51 A power amplifier supplies 50 W to an 8 Ω speaker. Find ac output voltage and ac output current.

Ans

X 1. 25 V, 2 A

2. 20 V, 2.5 A

X 3.50 V, 1 A

X 4. 12.5 V, 4 A

Question ID : 50389011091

Status: Answered

Chosen Option : 2

Q.52 Which of the following system is linear?

Ans

✓ 1.
$$Y(n) = x(n) + n x(n+1)$$

$$\times$$
 2. $Y(n) = \cos x(n)$

$$X$$
 3. $Y(n) = e^{x(n)}$

$$X$$
 4. $Y(n) = |x(n)|$

Question ID: 50389011064

Status : Answered

Chosen Option: 4

Q.53 Two equal resistors of 10 Ω each are connected in series with a 20 V dc supply. Find the current through each resistor.

Ans



X 2.2 A

√ 3. 1 A

X 4.8 A

Adda 247

Question ID : 50389011040 Status : Answered

Chosen Option: 3

Q.54 If following Boolean expression is reduced, what will be the reduced result?

$$(B + BC) (B + \overline{B} C) (B + D)$$

Ans

X 1. C

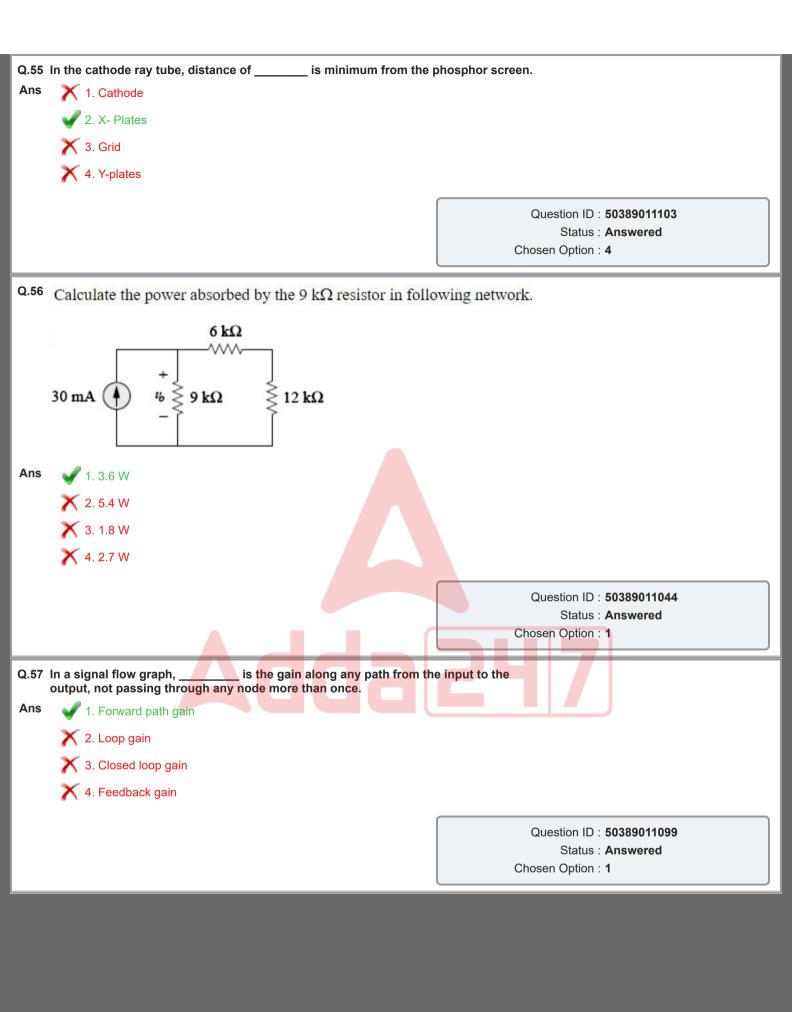
√ 2. B

X 3. CD

X 4. D

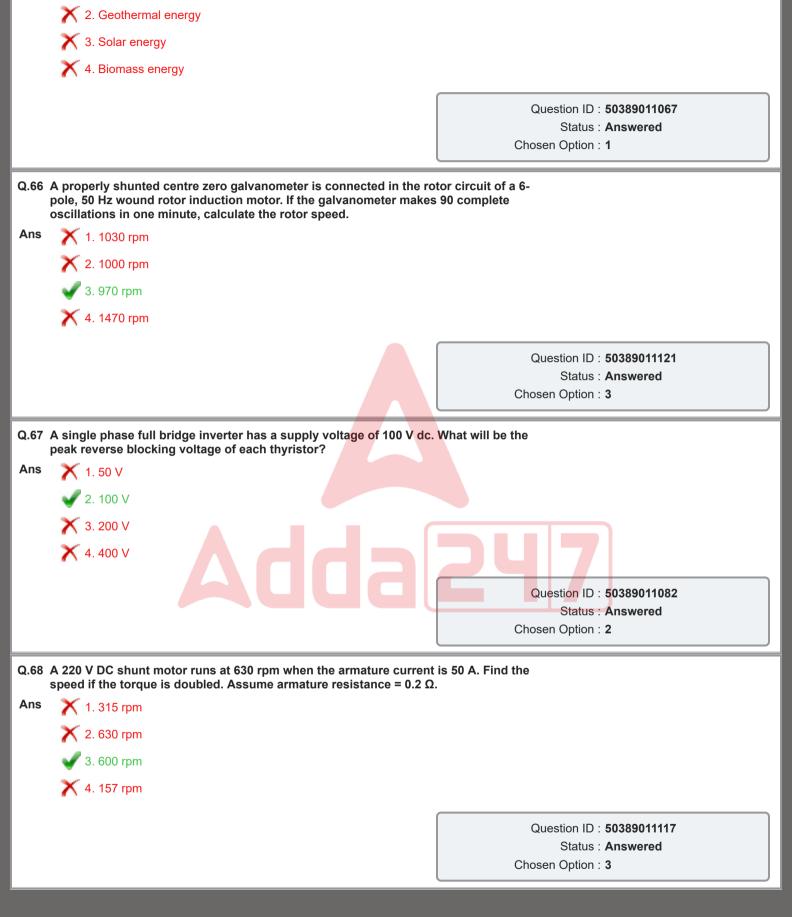
Question ID : 50389011095

Status : Answered



Q.58	As per force-voltage analogy, mass and viscous friction in mechanical translational system are analogous to and in electrical system, respectively.	
Ans	1. Inductance, resistance	
	🔀 2. Inductance, capacitance	
	X 3. Resistance, capacitance	
	X 4. Capacitance, inductance	
		0 15 50 5000044000
		Question ID : 50389011098 Status : Answered
		Chosen Option : 1
Q.59	9 The resultant transient voltage which appears across the breaker cont instant of arc extinction is known as the	acts at the
Ans		
	× 2. Source voltage	
	X 3. Active recovery voltage	
	4. Restriking voltage	
		Question ID : 50389011075 Status : Answered Chosen Option : 1
Q.60	Which of the following is not a deterministic signal?	
Ans	1. Sine wave	
	× 2. Exponential wave	
	✓ 3. Noise	
	X 4. Cosine wave	3) U 5/
		Question ID : 50389011060
		Status : Answered
		Chosen Option : 3
Q.61	1 For a transistor, collector current is 100 times the base curr	ent. Find βdc.
Ans		T do
	× 2. 50	
	× 3. 90	
	X 4. 10	
		Question ID : 50389011089 Status : Answered
		Chosen Option : 1

Q.62	2 A conventional oscilloscope has a bandwidth of 100 MHz. The approximately	rise of the CRO is
Ans	1. 35 ns	
	🗶 2. 0.35 ns	
	🗙 3. 350 ns	
	√ 4. 3.5 ns	
		Out affine ID + F0000044440
		Question ID : 50389011113 Status : Answered
		Chosen Option : 4
Q.63	Following circuit is clipper.	
	R	
	×	
	1 1	
	V _i D V	
	†	
Ans	× 4.00 × 10	
AllS	* \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	
	2. Series negative	
	3. Shunt positive	
	X 4. Series positive	
		Question ID : 50389011088
		Status : Answered Chosen Option : 3
		Chocon Spilon . C
Q.64	A continuous time signal is said to be periodic if $x(t) = x(t + t)$	T ₀). Here, T ₀ is called
Ans	1. Starting period	
	X 2. Dummy period	
	★ 3. Sampling period	
	4. Fundamental period	
		Question ID : 50389011058
		Status : Answered
		Chosen Option : 4



Q.65 Identify the non-renewable source of energy among the given option.

Ans

1. Nuclear energy

Q.69 In 8085 microprocessor, when the PUSH instruction is executed the stack pointer register is ______ and when the POP instruction is executed the stack pointer is _____, respectively.

Ans

- X 1. Decremented by one, incremented by one
- X 2. Incremented by two, decremented by two
- 3. Decremented by two, incremented by two
- X 4. Incremented by one, decremented by one

Question ID : 50389011093

Status : Answered

Chosen Option: 4

Q.70

Find the z-transform of $x(n) = \left(\frac{1}{2}\right)^n u(-n)$

Ans

$$X$$
 1. $X(Z) = \frac{1}{1+2Z}$

$$X = X(Z) = \frac{1}{Z-2}$$

$$\times$$
 3. $X(Z) = \frac{1}{Z+2}$

✓ 4.
$$X(Z) = \frac{1}{1-2Z}$$

Question ID : 50389011065

Status : Answered

Chosen Option: 2

Q.71 Which of the following device does not belong to thyristor family?

Δns

- X 1. SITH
- **X** 2. GTO
- **X** 3. RCT
- 4. UJT

Question ID: 50389011077

Status : **Answered**

Chosen Option: 4

Q.72 In a magnetic circuit, the ratio of flux to m.m.f represents ______.

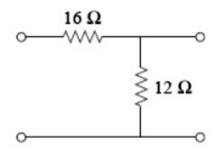
Ans

- X 1. Reactance
- 2. Permeance
- X 3. Resistance
- X 4. Reluctance

Question ID: 50389011049

Status : Answered

 $^{Q.73}$ Find the value of Z_{11} for the following network.



Ans

Χ 1. 16 Ω

🗶 2. 12 Ω

√ 3. 28 Ω

Χ 4.4 Ω

Question ID: 50389011045

Status : Answered

Chosen Option: 3

Q.74 The critical point (-1, j0) is mapped to _____ on the Nichols chart.

Ans

1. (0 dB, - 180°)

2. (0 dB, 0°)

X 3. (1 dB, 180°)

X 4. (1 dB, 0°)

Question ID: 50389011102

Status : Answered

Chosen Option: 1

Q.75 A $2k\Omega$ resistor is connected across a 10 V battery. Calculate the power consumed by the resistor.

Ans

1. 50 mW

× 2. 5.0 W

X 3. 0.5 W

X 4. 5 mW

Question ID: 50389011042

Status : **Answered**

Q.76 Ans	6 Output voltage wave shape of a basic series inverter is		
Allo	1. Trapezoidal wave2. Discontinuous sinewave		
	3. Square wave		
	X 4. Continuous sinewave		
	• • • • • • • • • • • • • • • • • • • •		
		Question ID : 50389011080 Status : Answered	
		Chosen Option : 3	
Q.77	7 With the help of the surface integral can be converted i integral.	into a volume	
Ans	s X 1. Gauss's law		
	2. Divergence theorem		
	X 3. Maxwell's theorem		
	X 4. Coulomb's law		
		Question ID : 50389011055 Status : Answered Chosen Option : 1	
Q.78	8 Maxwell bridge is used for the measurement ofhaving the Q-f	actor in the	
	range		
Ans			
	2. Capacitors and inductors, 1 < Q < 100		
	3. Inductors, 1 < Q < 10		
	★ 4. capacitors, 1 < Q < 100		
	Aud	Question ID : 50389011110 Status : Answered Chosen Option : 1	
O 70	9 7 14 67 4 6 11 6 4 11 7 9 7 7	** 11.2 1.44	
Q.79 Ans	1 0	H and $M = 4 H$.	
7.110	✓ 2. 1.0		
	× 4. 0.75		
	4.0.70		
		Question ID : 50389011052 Status : Answered	
		Chosen Option : 2	
			Ī

Q.80	In DC motor, the difference between armature torque and sha	off torque is called
Ans	1. Breakaway torque, friction losses	
	X 2. Lost torque, copper losses	
	X 3. Breakaway torque, copper losses	
	✓ 4. Lost torque, iron and friction losses	
		Question ID : 50389011124 Status : Answered
		Chosen Option : 4
Q.81	With reference to fault analysis, L-L fault is fault.	ılt and the L-L-L-G fault is
Ans	X 1. Symmetrical, Unsymmetrical	
	X 2. Unsymmetrical, Unsymmetrical	
	3. Unsymmetrical, Symmetrical	
	X 4. Symmetrical, Symmetrical	
		Question ID : 50389011071
		Status : Answered
		Chosen Option : 3
Q.82	For a 3-phase semiconverter, if the firing angle for thyristor i	s 90°, the free-wheeling
	diode will conduct for a period of	
Ans		
	✓ 2. 30°	
	X 3. 120°	
	X 4. 0°	
		Question ID : 50389011086
		Status : Answered
		Chosen Option : 2
Q.83	Which of the following device is bidirectional?	
Ans	X 1. SCS	
	X 2. SUS	
	X 3. PUT	
	√ 4. DIAC	
		Question ID : 50389011078
		Status : Answered
		Chosen Option : 4

Q.84 In which of the following commutation technique, the triggering of one SCR commutates the already conducting SCR and vice versa?

Ans

X 1. Class A commutation

2. Class C commutation

X 3. Class E commutation

X 4. Class D commutation

Question ID : 50389011079 Status : Answered

Chosen Option : 2

Q.85 Which of the following statement is WRONG when underground cables are compared with overhead lines?

Ans

X 1. The conductor in overhead lines are less expensive

2. The erection cost of overhead line is much higher

X 3. Underground cables give greater safety to the public

X 4. For long distance transmission, overhead lines are used

Question ID: 50389011073

Status: Answered

