



## CIL MT Electrical

### Previous Year Paper 27 Feb 2020



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Coal India Limited 27th F	eb 2020
27/02/2020	
5:00 PM - 8:00 PM	
Electrical	
	5:00 PM - 8:00 PM

Sectio	on : General Knowledge and Awareness	
	Qutub Minar is situated in	
Ans	🗙 A. Punjab	
	🗙 B. Madhya Pradesh	
	🗙 C. Haryana	
	V D. New Delhi	
		Question ID : <b>59445917428</b> Status : <b>Answered</b> Chosen Option : <b>4</b>
Q.2 Ans	Where is the famous Vallanadu Wildlife Sanctuary located?	
Alla	X A. Maharashtra	
	<ul> <li>Kerala</li> <li>C. Tamil Nadu</li> <li>D. Karnataka</li> </ul>	247
		Question ID : <b>59445917431</b>
		Status : <b>Answered</b> Chosen Option : <b>3</b>
	Who is the current Revenue Secretary of India?	
Ans	🗙 A. Ramesh Singh	
	✔ B. Ajay Bhushan Pandey	
	🗙 C. S.K. Sharma	
	🗙 D. Rajiv Kumar	
		Question ID : 59445917442
		Status : Marked For Review
		Chosen Option : 4





Q.4	In which of the following country 8th session of the International 3 Genetic Resources for Food and Agriculture (ITPGRFA) was held?	reaty of Plant
Ans	X A. Australia	
	X B. France	
	C. Italy	
	D. Sweden	
	N D. Sweden	
		Question ID : 59445917432
		Status : Answered
		Chosen Option : 4
Q.5	How many Lok sabha seats come from Tamil Nadu?	
Ans	🗙 A. 43	
	🗙 В. 29	
	✓ C. 39	
	X D. 34	
		Question ID : 59445917436
		Status : Answered Chosen Option : 3
Q.6	Kummi is the famous ancient dance form of which of the following	state?
Ans	🗙 A. Odisha	
	🖌 B. Tamil Nadu	
	X C. Karnataka	
	X D. West Bengal	
		Question ID : 59445917427
		Status : <b>Answered</b> Chosen Option : <b>2</b>
Q.7	Which pollutant gas dissolves with hemoglobin faster than oxyge	1?
Ans	🗙 A. Carbon dioxide	
	V B. Carbon Monoxide	
	X C. Nitric oxide	
	X D. Hydrogen sulphide	
		Question ID : 59445917422 Status : Answered
		Chosen Option : 2





Q.8 Ans	Which of the following country hosted the BRICS summit 2019?	
	X B. India	
	C. China	
	D. Russia	
		Question ID : <b>59445917437</b> Status : <b>Answered</b>
		Chosen Option : 1
	Who is the current Finance Secretary?	
Ans	🗙 A. Rajiv Gauba	
	🗙 B. Subhash Chandra Garg	
	🗙 C. Atanu Chakraborty	
	V D. Rajiv Kumar	
		Question ID : 59445917433
		Status : Answered
		Chosen Option : 2
Q.10	From January 2020, banks can no longer charge savings bank acco	ount holders for
Ans	online transactions in which of the following systems?	
	B. IMPS	
	C. RTGS	
		Question ID : 59445917434
		Status : <b>Answered</b> Chosen Option : <b>2</b>
0.11	Who is the current Lt. Governor of Ladakh?	
Ans	X A. Satya Pal Malik	
	B. Girish Chander Murmu	
	C. R K Mathur	
	🗙 D. Mridula Sinha	
		Question ID : <b>59445917435</b> Status : <b>Answered</b>
		Chosen Option : 3





Q.12 Which of the following is the first spacecraft of NASA that can study all the four planets (Jupiter, Neptune, Saturn and Uranus) together?         Ans       ▲ A Voyager 1         ▶ B. DSCOVR       ▲ C. Insight         ✓ D. Voyager 2       Question ID : 59445917424         Status : Answered Chosen Option : 2         Q.13 Which country has hosted 2020 ICC Women's T20 World Cup?         Ans       ▲ A. Spain         ▲ B. India         ▲ C. South Africa         ✓ D. Australia         Question ID : 59445917426         Status : Answered Chosen Option : 4
Ans       ▲ A. Voyager 1         ▲ B. DSCOVR         ▲ C. Insight         ✔ D. Voyager 2         Question ID : 59445917424         Status : Answered         Chosen Option : 2         Q.13 Which country has hosted 2020 ICC Women's T20 World Cup?         Ans       ▲ A. Spain         ▲ B. India         ▲ C. South Africa         ✔ D. Australia         Question ID : 59445917426         Status : Answered         Chosen Option : 4
<ul> <li>C. Insight         <ul> <li>D. Voyager 2</li> </ul> </li> <li>Question ID : 59445917424         Status : Answered         Chosen Option : 2</li> <li>Q.13 Which country has hosted 2020 ICC Women's T20 World Cup?         <ul> <li>Ans</li> <li>▲ A. Spain</li> <li>▲ B. India</li> <li>▲ C. South Africa</li> <li>▲ D. Australia</li> </ul> </li> <li>Question ID : 59445917426         <ul> <li>Status : Answered</li> <li>Chosen Option : 4</li> </ul> </li></ul>
<ul> <li>✓ D. Voyager 2</li> <li>Question ID : 59445917424 Status : Answered Chosen Option : 2</li> <li>Q.13 Which country has hosted 2020 ICC Women's T20 World Cup?</li> <li>Ans X A. Spain</li> <li>X B. India</li> <li>X C. South Africa</li> <li>✓ D. Australia</li> <li>Question ID : 59445917426 Status : Answered Chosen Option : 4</li> </ul>
<ul> <li>✓ D. Voyager 2</li> <li>Question ID : 59445917424 Status : Answered Chosen Option : 2</li> <li>Q.13 Which country has hosted 2020 ICC Women's T20 World Cup?</li> <li>Ans X A. Spain</li> <li>X B. India</li> <li>X C. South Africa</li> <li>✓ D. Australia</li> <li>Question ID : 59445917426 Status : Answered Chosen Option : 4</li> </ul>
Question ID : 59445917424 Status : Answered Chosen Option : 2 Q.13 Which country has hosted 2020 ICC Women's T20 World Cup? Ans A. Spain B. India C. South Africa D. Australia Question ID : 59445917426 Status : Answered Chosen Option : 4
Status : Answered Chosen Option : 2         Q.13 Which country has hosted 2020 ICC Women's T20 World Cup?         Ans       A. Spain         M       B. India         M       C. South Africa         Image: D. Australia       Question ID : 59445917426         Status : Answered       Chosen Option : 4
Chosen Option : 2          Q.13 Which country has hosted 2020 ICC Women's T20 World Cup?         Ans
Q.13 Which country has hosted 2020 ICC Women's T20 World Cup?         Ans       ✓ A. Spain         ✓ B. India         ✓ C. South Africa         ✓ D. Australia         Question ID : 59445917426         Status : Answered         Chosen Option : 4
Ans X A. Spain B. India C. South Africa D. Australia Question ID : 59445917426 Status : Answered Chosen Option : 4
<ul> <li>B. India</li> <li>C. South Africa</li> <li>D. Australia</li> <li>Question ID : 59445917426 Status : Answered Chosen Option : 4</li> </ul>
C. South Africa D. Australia Question ID : 59445917426 Status : Answered Chosen Option : 4
D. Australia Question ID : 59445917426 Status : Answered Chosen Option : 4
Question ID : 59445917426 Status : Answered Chosen Option : 4
Status : Answered Chosen Option : 4
Status : Answered Chosen Option : 4
0.14. Who had given the slogan (Back to Vedas'?
Ans A. Dayanand Saraswati
B. Mahatma Gandhi
C. Guru Nanak Dev
D. Bhimrao Ambedkar
Question ID : 59445917429
Status : Answered Chosen Option : 1
Q.15 Which of the following country had organized ADIPEC 2019 event?
Q.15 Which of the following country had organized ADIPEC 2019 event?
Q.15 Which of the following country had organized ADIPEC 2019 event? Ans X A. Kuwait
Q.15 Which of the following country had organized ADIPEC 2019 event? Ans X A. Kuwait B. UAE
Q.15 Which of the following country had organized ADIPEC 2019 event? Ans
Q.15 Which of the following country had organized ADIPEC 2019 event? Ans X A. Kuwait B. UAE C. Jordon





	Which state in India is the first one to get law on contract farmin	ıg?
Ans	X A. Karnataka	
	V B. Tamil Nadu	
	🗙 C. Kerala	
	🗙 D. Maharashtra	
		Question ID : 59445917441
		Status : Answered
		Chosen Option : 1
Q.17	Who among the following has won the 37th Athens Marathon?	
Ans	🗙 A. Geoffrey Mutai	
	🗙 B. Felicien Muhitira	
	🗙 C. Martin Lel	
	🗸 D. John Kipkorir Komen	
		Question ID : 59445917425 Status : Answered
		Chosen Option : 1
	Which of the following ruler has given permission to the East In in India?	dia Company to trade
Ans	X A. Bahadur Shah Jafar	
	X B. Humayun	
	C. Jahangir	
	X D. Akbar	
		Question ID : 59445917430
		Status : <b>Answered</b> Chosen Option : <b>3</b>
	Who among the following has been appointed as the Ambassad Republic of Mali?	or of India to the
Ans	X A. S.K. Sharma	
	X B. Pradeep Kumar Gupta	
	X C. Rajiv Kumar	
	D. Anjani Kumar	
	•	
		Question ID : 59445917438
		Status : Marked For Review Chosen Option : 2

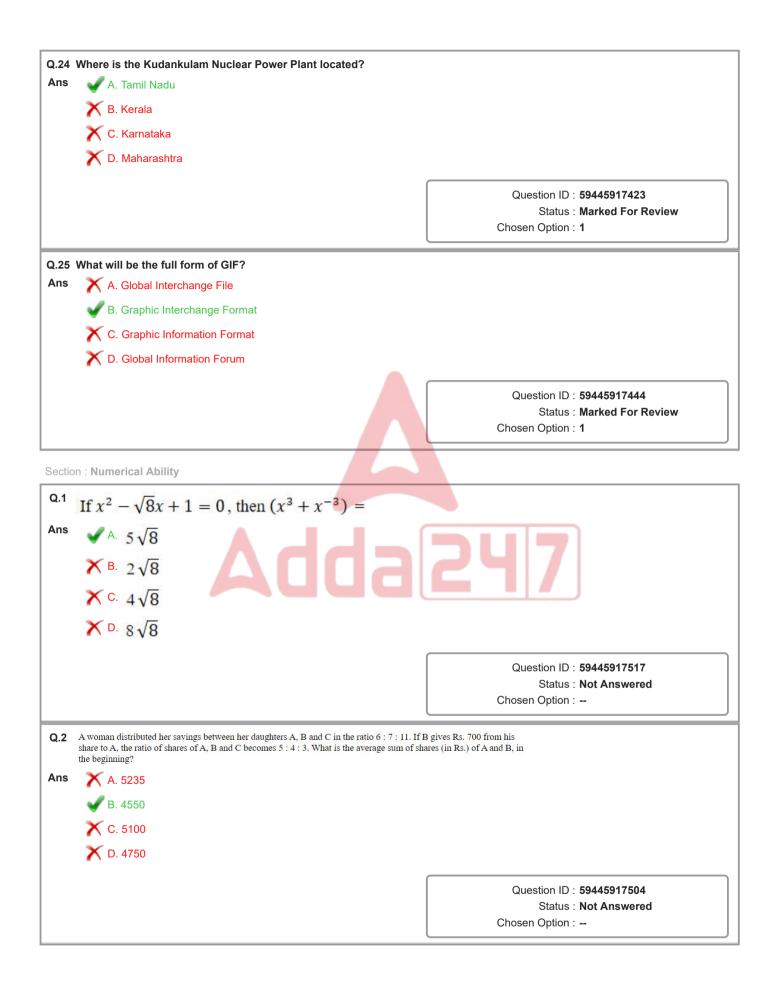




Q.20	Who has been appointed as a new country manager of G	oogle India?
Ans	🗙 A. Sundar Pichai	
	🗙 B. Rajiv Kumar	
	🗙 C. S.K. Sharma	
	✔ D. Sanjay Gupta	
		Question ID : 59445917445
		Status : Answered
		Chosen Option : 4
Q.21	Goodwill is related to which of the following assets?	
Ans	X A. Floating assets	
	X B. Fictitious assets	
	X C. Tangible assets	
	✔ D. Intangible assets	
		Question ID : 59445917443
		Status : Answered
		Chosen Option : 4
Q.22	With which crop production Round Revolution is related	?
Ans	X A. Rice	
	B. Potato	
	X C. Wheat	
	X D. Oilseeds	
		Question ID : 59445917440
		Status : Answered
		Chosen Option : 2
	Which of the following vitamin helps to absorb calcium i	n the body and maintain our
Ans	bone health?	
	X B. Vitamin C	
	C. Vitamin D	
	X D. Vitamin K	
		Question ID : 59445917421
		Status : <b>Answered</b> Chosen Option : <b>3</b>

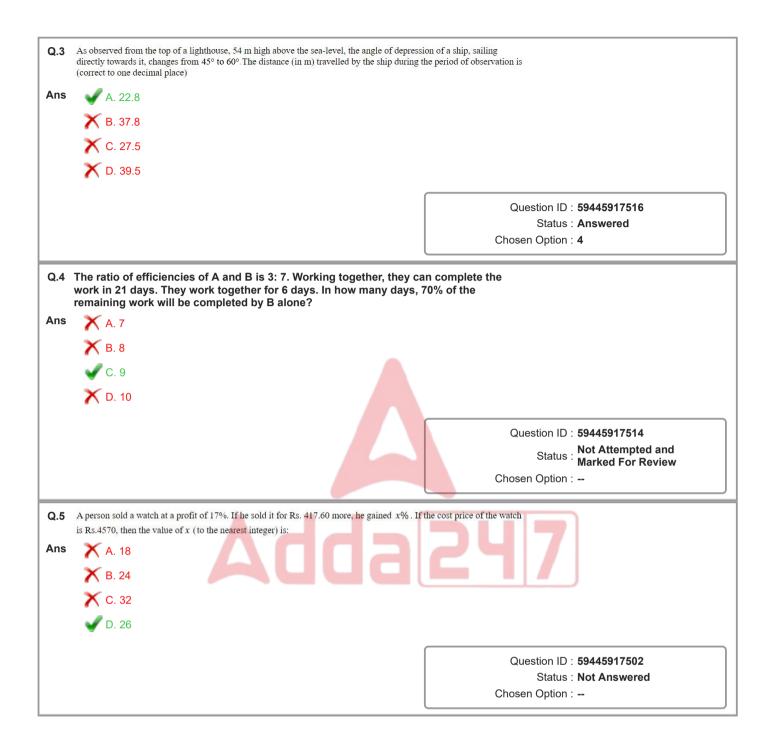






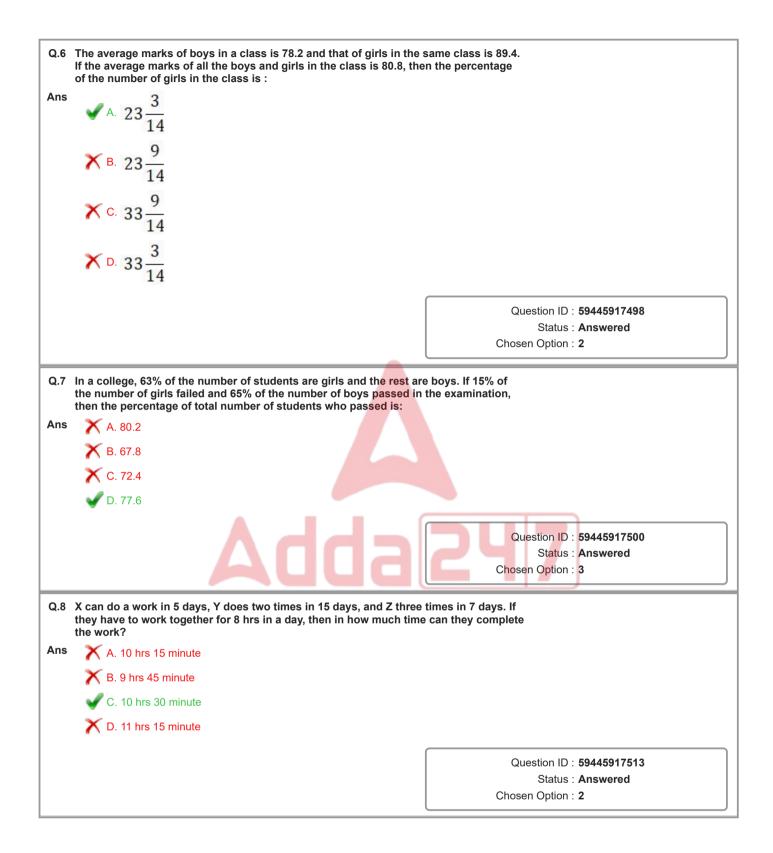
















<ul> <li>a.9 The receipe of these numbers is 4.9. The sense of first frame matters is 3.9 and r frees equipt numbers is 4.7. The 19<sup>th</sup> number is to the first number number is 5.8 that the 15<sup>th</sup> number. What is the average of 15<sup>th</sup> and 15<sup>th</sup> numbers.</li> <li>Ars  <ul> <li>Ars  <ul> <li>Ars  <ul> <li>A 5.3.5</li> <li>B 4.9.5</li> <li>C 5.5.5</li> <li>D 5.8.5</li> </ul> </li> </ul> </li> </ul> </li> <li>Cuestion ID : 59445917499 Status : Answered Chosen Option : 1</li> </ul> <li>Cuestion ID : 59445917608 Status : Answered Chosen Option : 2</li> <li>Cuestion ID : 59445917508 Status : Answered Chosen Option : 2</li> <li>Cuestion ID : 594459177618 Status : Answered Chosen Option : 1</li>			
<pre>It<sup>R</sup>mundlend Ars ★ A. 53.5 ★ D. 58.5 Cuestion ID: 594459177499 Status : Answored Chosen Option : 1 C.10 The compound detect compounded numbers to a state of 26.15023 in there yours 16.05.4053 Wart is the state at the or interest? Ars ★ A. 7% ★ B. 8% ★ C. 10% ★ D. 9% Cuestion ID: 59445917508 Status : Answered Chosen Option : 2 Cuestion ID: 59445917518 Status : Answered Chosen Option : 1 Cuestion ID: 59445917518 Status : Answered Chosen Option : 1</pre>	Q.9	The average of fifteen numbers is 49. The average of first four numbers is 51 that of n number is two times the 14 <sup>th</sup> number and 14 <sup>th</sup> number is 3 less than the 15 <sup>th</sup> number.	ext eight numbers is 47. The 13 <sup>th</sup> What is the average of 13 <sup>th</sup> and
<ul> <li>A 49.5</li> <li>C 55.5</li> <li>D 58.5</li> <li>Cuestion ID: 59445917499 Status: Answord Chosen Option: 1</li> <li>Cuestion ID: 59445917508 Status: Answerd Chosen Option: 2</li> <li>C 10%</li> <li>C 10%</li> <li>D 96</li> <li>Cuestion ID: 59445917508 Status: Answerd Chosen Option: 2</li> <li>Cuestion ID: 59445917508 Status: Answerd Chosen Option: 2</li> <li>Cuestion ID: 59445917508</li> <li>Status: Answerd Chosen Option: 2</li> <li>Cuestion ID: 59445917518</li> <li>Status: Answerd Chosen Option: 1</li> <li>Cuestion ID: 59445917518</li> <li>Status: Answerd</li> <li>Core 1</li> <li>Cuestion ID: 59445917518</li> <li>Status: Cuestion ID: 59445917518</li> <li>Status: Answerd</li> <li>Cuestion ID: 59445917519</li> <li>Status: Answerd</li> </ul>	Δns	15 <sup>th</sup> numbers?	
<ul> <li>C : 56.5</li> <li>→ D. : 56.5</li> <li>→ D. : 56.5</li> <li>Cuestion ID: : 59445917499 Status: Answord Chosen Option: :</li> <li>C : 10: 59445917508 Status: Answord Chosen Option: 2</li> <li>C : 10: 59465917508</li> <li>C : 10: 59465917508</li> <li>Status: Answerd Chosen Option: 2</li> <li>C : 10: 59445917508</li> <li>Status: Answerd Chosen Option: 2</li> <li>C : 10: 59445917518</li> <li>Status: Answerd Chosen Option: 1</li> <li>C : 20: 403</li> <li>C : 20: 403</li></ul>			
Lesse Luestion ID: 59445917492 Status: Answered Chosen Option : 1			
Question ID: 59445917499 Status: Answered Chosen Option: 1         Q.10       The composed interest composed sensely on a sum of Rs.15025 in they years is Rs. 4058. What is the summal rate dimension         Ars       A 7%         Question ID: 59445917508         Status: Answered Chosen Option : 2         Question ID: 59445917518         Status: Answered Chosen Option : 1         Question ID: 59445917518         Status: Answered         Max       A 43 : 27         Max       A 43 : 27         Status: Answered         Max       A 43 : 27         Status: Answered         D. 17: 26			
Status: Answerd         Q.10       The compound idnered compounded manually on a sum of Rs. 15025 in three years is Rs. 4038. What is the named rate of interest of a 7%         Ams       A 7%         Q.10       E. 15%         Q.10       E. 10%         Q.11       If x and y are real numbers, then the least possible value of 9 (y - 3) <sup>2</sup> + (x - 5) <sup>2</sup> - 7(y - 2) <sup>2</sup> is:         Ams       A338         Q.11       If x and y are real numbers, then the least possible value of 9 (y - 3) <sup>2</sup> + (x - 5) <sup>2</sup> - 7(y - 2) <sup>2</sup> is:         Ams       A338         Q.12       D. 206         Question ID: 59445917518         Status: Answered         Chosen Option : 1         Q.12       The ratios of saft and sugar in mixtures A and B are 3 : 4 and 5 : 9; respectively. A and B are taken in the ratio 2 : 3 and mixed to form a new mixture C. What is the ratio of sugar and saft in C?         Ams       A43 : 27         A43 : 27         A43 : 27         B25         Cuestion ID: 59445917510         Status: Answered         D27 : 43         D27 : 43 <tr< th=""><th></th><th>U. 58.5</th><th></th></tr<>		U. 58.5	
Chosen Option : 1 Q.10 The compound distribution compounded namely on a sum of BL 15025 in three years is BL 4058. What is the named rate Ans X A 7% W B . 9% X C . 10% X D . 9% Question ID : 59445917508 Status : Answered Chosen Option : 2 Q.11 If x and y are real numbers, then the least possible value of 9 (y' - 3) <sup>2</sup> + (x = 5) <sup>2</sup> - 7(y - 2) <sup>2</sup> is: Ans X A -338 W B - 285 X C . 0 X D . 20 Question ID : 59445917518 Status : Answered Chosen Option : 1 Q.12 The ratios of salt and sugar In mixtures A and B are 3 : 4 and 5 : 9; respectively. A and B are taken in the ratio 2 : 3 and mixed to form a new mixture C. What is the ratio of B are taken in the ratio 2 : 3 and mixed to form a new mixture C. What is the ratio of B are taken in the ratio 2 : 3 and mixed to form a new mixture C. What is the ratio of B are taken in the ratio 2 : 3 and mixed to form a new mixture C. What is the ratio of B are taken in the ratio 2 : 3 and mixed to form a new mixture C. What is the ratio of B are taken in the ratio 2 : 3 and mixed to form a new mixture C. What is the ratio of B are taken in the ratio 2 : 3 and mixed to form a new mixture C. What is the ratio of B are taken in the ratio 2 : 3 and mixed to form a new mixture C. What is the ratio of B are taken in the ratio 2 : 3 and mixed to form a new mixture C. What is the ratio of B are taken in the ratio 2 : 3 and mixed to form a new mixture C. What is the ratio of B are taken in the ratio 2 : 3 and mixed to form a new mixture C. What is the ratio of B are taken in the ratio 2 : 3 and mixed to form a new mixture C. What is the ratio of B are taken in the ratio 2 : 3 and mixed to form a new mixture C. What is the ratio of B are taken in the ratio 2 : 3 and mixed to form a new mixture C. What is the ratio of B are taken in the ratio 2 : 3 and mixed to form a new mixture C. What is the ratio of B are taken in the ratio 2 : 3 and mixed to form a new mixed b in recommender taken in the ratio 2 : 5 and mixed b in recommender taken in the ratio 2 : 5 and			
<ul> <li>Q.10 The compound interest compounded annually on a sum of Rs. 150.5 in three years is Rs. 40.55. What is the annual rate of interest?</li> <li>Ans A. 7%</li> <li>B. 8%</li> <li>C. 10%</li> <li>D. 9%</li> <li>Question ID : 59445917508 Status : Answered Chosen Option : 2</li> <li>Q.11 If x and y are real numbers, then the least possible value of 9 (y - 3)<sup>2</sup> + (x - 5)<sup>2</sup> - 7(y - 2)<sup>2</sup> is:</li> <li>Ans A338</li> <li>B225</li> <li>C. 0</li> <li>D. 20</li> <li>Question ID : 59445917518 Status : Answered Chosen Option : 1</li> <li>Q.12 The ratios of salt and sugar in mixtures A and B are 3 : 4 and 5 : 9, respectively. A and B are taken in the ratio 2 : 3 and mixed to form a new mixture C. What is the ratio of sugar and salt in C?</li> <li>Ans A. 43: 27</li> <li>B. 25 : 17</li> <li>C. 27 : 43</li> <li>D. 17 : 25</li> <li>Question ID : 59445917510</li> <li>Status : Answered</li> </ul>			
Ans A 7% Ans A 7% C 0. 10% D 9% Question ID : 59445917508 Status : Answered Chosen Option : 2 Question ID : 59445917518 Status : Answered Chosen Option : 2 Question ID : 59445917518 Status : Answered Chosen Option : 1 Question ID : 59445917510 Status : Answered Chosen Option : 1 Cuestion ID : 59445917510 Status : Answered			
A.33 A.33 B. 8% A.33 B. 9% Cuestion ID: 59445917508 Status: Answered Chosen Option: 2 Chosen Option: 2 C.11 If x and y are real numbers, then the least possible value of 9 (y - 3) <sup>2</sup> + (x - 5) <sup>2</sup> - 7(y - 2) <sup>2</sup> is: Ans A.338 B285 C. 0 D. 20 Cuestion ID: 59445917518 Status: Answered Chosen Option: 1 Chosen Option: 1 Chosen Option: 1 Conservation in the ratio 2: 3 and mixed to form a new mixture C. What is the ratio of sugar and salt in C? Ans A.43: 27 B. 25: 17 B. 25: 17 C. 27: 43 D. 17: 25 Cuestion ID: 59445917519 Status: Answered Cuestion ID: 59445917510 Status: Answered Status: Answered Conservation of the ratio 2: 3 and mixed to form a new mixture C. What is the ratio of sugar and salt in C? Ans A. 43: 27 B. 25: 17 C. 27: 43 D. 17: 25 Cuestion ID: 59445917510 Status: Answered Cuestion ID: 59445917510 Status: Answered Status: Answered Cuestion ID: 59445917510 Status: Answered Status: Answ	Q.10		Rs. 4058. What is the annual rate
C. 10% D. 9% C. 10% D. 9% Cuestion ID : 59445917508 Status : Answered Chosen Option : 2 C.11 If x and y are real numbers, then the least possible value of 9 (y-3) <sup>2</sup> + (x-5) <sup>2</sup> - 7(y-2) <sup>2</sup> is: Ans A - 338 B - 285 C. 0 D. 20 Cuestion ID : 59445917518 Status : Answered Chosen Option : 1 Cuestion ID : 59445917518 Status : Answered Chosen Option : 1 Consen Option : 2 Status : Answered Chosen Option : 1 Cuestion ID : 59445917518 Status : Answered Chosen Option : 1 Chosen Option : 1 Cuestion ID : 59445917518 Status : Answered Chosen Option : 2 D. 20 Cuestion ID : 59445917518 Status : Answered Chosen Option : 1 Cuestion ID : 59445917518 Status : Answered Chosen Option : 1 Cuestion ID : 59445917518 Status : Answered Chosen Option : 1 Cuestion ID : 59445917518 Status : Answered D. 17: 25 Cuestion ID : 59445917519 Status : Answered Cuestion ID : 59445917519 Status : Answered Chosen Option : 2 Status : Answered Chosen Option : 1 Status : Answered Chosen Option : 1 Cuestion ID : 59445917518 Status : Answered Constant in the ratio 2: 3 and mixed to form a new mixture C. What is the ratio of Status : Answered Status : Answered Cuestion ID : : 9445917510 Status : Answered Status : Answered Status : Answered Cuestion ID : : 9445917510 Status : Answered Status : Answered Cuestion ID : : 9445917510 Status : Answered Status : Answered Status : Answered Status : Answered Cuestion ID : : 9445917510 Status : Answered S	Ans	🗙 A. 7%	
★ D. 9%          Cuestion ID: 59445917508         Status: Answered         Cosen Option : 2             Q.11         If x and y are real numbers, then the least possible value of 9 (y - 3) <sup>2</sup> + (x - 5) <sup>2</sup> - 7(y - 2) <sup>2</sup> is:         An         A - 338         B - 265         C : 0         D : 20             Question ID: 59445917518         Status: Answered         Chosen Option :             Q.12       The ratios of salt and sugar in mixtures A and B are 3 : 4 and 5 : 9, respectively. A and         B are taken in the ratio 2 : 3 and mixed to form a new mixture C. What is the ratio of sugar and salt in C?             Ans       A 43 : 27         M B .25 : 17         M B .25 : 17         M B .25 : 17         M D . 17 : 25		✔ B. 8%	
Question ID: 59445917508. Status: Answered Chosen Option : 2         Q.11       If x and y are real numbers, then the least possible value of 9 (y - 3) <sup>2</sup> + (x - 5) <sup>2</sup> - 7(y - 2) <sup>2</sup> is:         Ans       ▲ A-338 ▲ B-285 ▲ C.0 ▲ D.20         Question ID: 59445917518. Status: Answered Chosen Option : 1         Q.12       The ratios of salt and sugar in mixtures A and B are 3 : 4 and 5 : 9, respectively. A and B are taken in the ratio 2 : 3 and mixed to form a new mixture C. What is the ratio of sugar and salt in C?         Ans       ▲ A 43 : 27 ▲ B. 25 : 17 ▲ C. 27 : 43 ▲ D. 17 : 25         Question ID: 59445917519. Status: Answered		🗙 C. 10%	
Status: Answered         Chosen Option: 2         ans         A338         B285         C.0         D. 20             Question ID: 59445917518         Status: Answered         Chosen Option: 1             Q.12 The ratios of salt and sugar in mixtures A and B are 3 : 4 and 5 : 9, respectively. A and         B are taken in the ratio 2: 3 and mixed to form a new mixture C. What is the ratio of sugar and salt in C?             Ans       Image: A. 43: 27         Image: B. 25: 17       Image: B. 25: 17         Image: B. 25: 17       Image: D. 17: 25             Question ID: 59445917519		X D. 9%	
Status: Answered         Chosen Option: 2         ans         A338         B285         C.0         D. 20             Question ID: 59445917518         Status: Answered         Chosen Option: 1             Q.12 The ratios of salt and sugar in mixtures A and B are 3 : 4 and 5 : 9, respectively. A and         B are taken in the ratio 2: 3 and mixed to form a new mixture C. What is the ratio of sugar and salt in C?             Ans       Image: A. 43: 27         Image: B. 25: 17       Image: B. 25: 17         Image: B. 25: 17       Image: D. 17: 25             Question ID: 59445917519			Question ID : 59445917508
<ul> <li>Q.11 If x and y are real numbers, then the least possible value of 9 (y - 3)<sup>2</sup> + (x - 5)<sup>2</sup> - 7(y - 2)<sup>2</sup> is:</li> <li>Ans A - 338</li> <li>B - 285</li> <li>C 0</li> <li>D 20</li> <li>Question ID : 59445917518 Status : Answered Chosen Option : 1</li> <li>Q.12 The ratios of salt and sugar in mixtures A and B are 3 : 4 and 5 : 9, respectively. A and B are taken in the ratio 2 : 3 and mixed to form a new mixture C. What is the ratio of sugar and salt in C?</li> <li>Ans A 43 : 27</li> <li>B .25 : 17</li> <li>C .27 : 43</li> <li>D .17 : 25</li> </ul>			
Ans       ★ A338         ★ B285       ★ C. 0         ★ D. 20       Question ID: 59445917518         Status : Answered         Chosen Option : 1    Q.12 The ratios of salt and sugar in mixtures A and B are 3 : 4 and 5 : 9, respectively. A and B are taken in the ratio 2 : 3 and mixed to form a new mixture C. What is the ratio of sugar and salt in C?          Ans       ✓ A. 43 : 27         ✓ B. 25 : 17       ✓ C. 27 : 43         ✓ D. 17 : 25       Question ID: 59445917510         Status : Answered       Status : Answered			Chosen Option : 2
<ul> <li>▶ .285</li> <li>▶ .285</li> <li>▶ .20</li> <li>Question ID: 59445917518 Status: Answered Chosen Option: 1</li> <li>Q.12 The ratios of salt and sugar in mixtures A and B are 3 : 4 and 5 : 9, respectively. A and B are taken in the ratio 2 : 3 and mixed to form a new mixture C. What is the ratio of sugar and salt in C?</li> <li>Ans ▲ A 3 : 27</li> <li>▲ B. 25 : 17</li> <li>▲ C. 27 : 43</li> <li>▲ D. 17 : 25</li> <li>Question ID: 59445917510 Status: Answered</li> </ul>	Q.11	If x and y are real numbers, then the least possible value of 9 $(y-3)^2$	$+(x-5)^2 - 7(y-2)^2$ is:
<ul> <li>C.0 D.20</li> <li>C.0 Question ID: 59445917518 Status: Answered Chosen Option: 1</li> <li>Q.12 The ratios of salt and sugar in mixtures A and B are 3 : 4 and 5 : 9, respectively. A and B are taken in the ratio 2 : 3 and mixed to form a new mixture C. What is the ratio of sugar and salt in C?</li> <li>Ans ▲ A3 : 27 ▲ B. 25 : 17 ▲ C. 27 : 43 ▲ D. 17 : 25</li> </ul>	Ans	🗙 A338	
<ul> <li>Question ID: 59445917518 Status: Answered Chosen Option: 1</li> <li>Q.12 The ratios of salt and sugar in mixtures A and B are 3 : 4 and 5 : 9, respectively. A and B are taken in the ratio 2 : 3 and mixed to form a new mixture C. What is the ratio of sugar and salt in C?</li> <li>Ans  A. 43 : 27</li> <li>B. 25 : 17</li> <li>C. 27 : 43</li> <li>D. 17 : 25</li> </ul>		✓ B285	
Question ID : 59445917518 Status : Answered Chosen Option : 1         Q.12 The ratios of salt and sugar in mixtures A and B are 3 : 4 and 5 : 9, respectively. A and B are taken in the ratio 2 : 3 and mixed to form a new mixture C. What is the ratio of sugar and salt in C?         Ans       ✓ A. 43 : 27         ✓ B. 25 : 17         ✓ C. 27 : 43         ✓ D. 17 : 25         Question ID : 59445917510 Status : Answered		X C. 0	
Status : Answered         Chosen Option : 1         Q.12 The ratios of salt and sugar in mixtures A and B are 3 : 4 and 5 : 9, respectively. A and         B are taken in the ratio 2 : 3 and mixed to form a new mixture C. What is the ratio of sugar and salt in C?         Ans       ✓ A. 43 : 27         ✓ B. 25 : 17         ✓ C. 27 : 43         ✓ D. 17 : 25         Question ID : 59445917510         Status : Answered		X D. 20	
Status : Answered         Chosen Option : 1         Q.12 The ratios of salt and sugar in mixtures A and B are 3 : 4 and 5 : 9, respectively. A and         B are taken in the ratio 2 : 3 and mixed to form a new mixture C. What is the ratio of sugar and salt in C?         Ans       ✓ A. 43 : 27         ✓ B. 25 : 17         ✓ C. 27 : 43         ✓ D. 17 : 25         Question ID : 59445917510         Status : Answered			
<ul> <li>Q.12 The ratios of salt and sugar in mixtures A and B are 3 : 4 and 5 : 9, respectively. A and B are taken in the ratio 2 : 3 and mixed to form a new mixture C. What is the ratio of sugar and salt in C?</li> <li>Ans   <ul> <li>A. 43 : 27</li> <li>B. 25 : 17</li> <li>C. 27 : 43</li> <li>D. 17 : 25</li> </ul> </li> <li>Question ID : 59445917510 <ul> <li>Status : Answered</li> </ul> </li> </ul>			
B are taken in the ratio 2 : 3 and mixed to form a new mixture C. What is the ratio of sugar and salt in C? Ans ✓ A. 43 : 27 ✓ B. 25 : 17 ✓ C. 27 : 43 ✓ D. 17 : 25 Question ID : 59445917510 Status : Answered			Chosen Option : 1
B are taken in the ratio 2 : 3 and mixed to form a new mixture C. What is the ratio of sugar and salt in C? Ans ✓ A. 43 : 27 ✓ B. 25 : 17 ✓ C. 27 : 43 ✓ D. 17 : 25 Question ID : 59445917510 Status : Answered	0.12	The ratios of salt and sugar in mixtures A and B are 3 · A and 5	• 9 respectively A and
<ul> <li>B. 25 : 17</li> <li>C. 27 : 43</li> <li>D. 17 : 25</li> <li>Question ID : 59445917510 Status : Answered</li> </ul>	GIIL	B are taken in the ratio 2 : 3 and mixed to form a new mixture C	
<ul> <li>C. 27 : 43</li> <li>D. 17 : 25</li> <li>Question ID : 59445917510 Status : Answered</li> </ul>	Ans	🖌 A. 43 : 27	
C. 17 : 25 Question ID : 59445917510 Status : Answered		🗙 B. 25 : 17	
C. 17 : 25 Question ID : 59445917510 Status : Answered		🗙 C. 27 : 43	
Status : Answered			
Status : Answered			Question ID : 59445917510
Chosen Option : 1			Status : Answered
			Chosen Option : 1





Q.13	An instrument cost a certain factory Rs. 520,000. If it depreciates ir first year, 15 % the next year, 13.5% the third year, and so on, what Rs.) at the end of 8 years, all percentages applying to the original c	will be its value (in
Ans	X A. 57500	
	🗙 в. 65000	
	X C. 62000	
	✓ D. 52000	
		Question ID : 59445917520 Status : Not Answered
		Chosen Option :
Q.14	Which among the following can be expressed as $(10p + q)$ $(10q + p)$ integers?	), where p and q are
Ans	-	
	🗙 В. 1728	
	🗙 C. 1296	
	✓ D. 1207	
		Question ID : 59445917507 Status : Not Answered
		Chosen Option :
0.15	A flyover has three spans whose lengths are in the ratio 2 : 3 : 5. A	hus whose length
Q.15	is one fifth of the total length of the flyover, takes t seconds to cros	
Ans	How many seconds does it take to cross the full flyover?	
	<b>X</b> D. 4t	
	C D. H	
		Question ID : 59445917512
		Status : Answered Chosen Option : 2
Q.16	The value of $\frac{1}{\sqrt{15-6\sqrt{6}}}$ is closest to:	
Ans	X A. 2.4	
	🗙 В. 1.2	
	<b>V</b> C. 1.8	
	🗙 D. 1	
		Question ID : <b>59445917506</b> Status : <b>Not Answered</b>
1		Chosen Option :

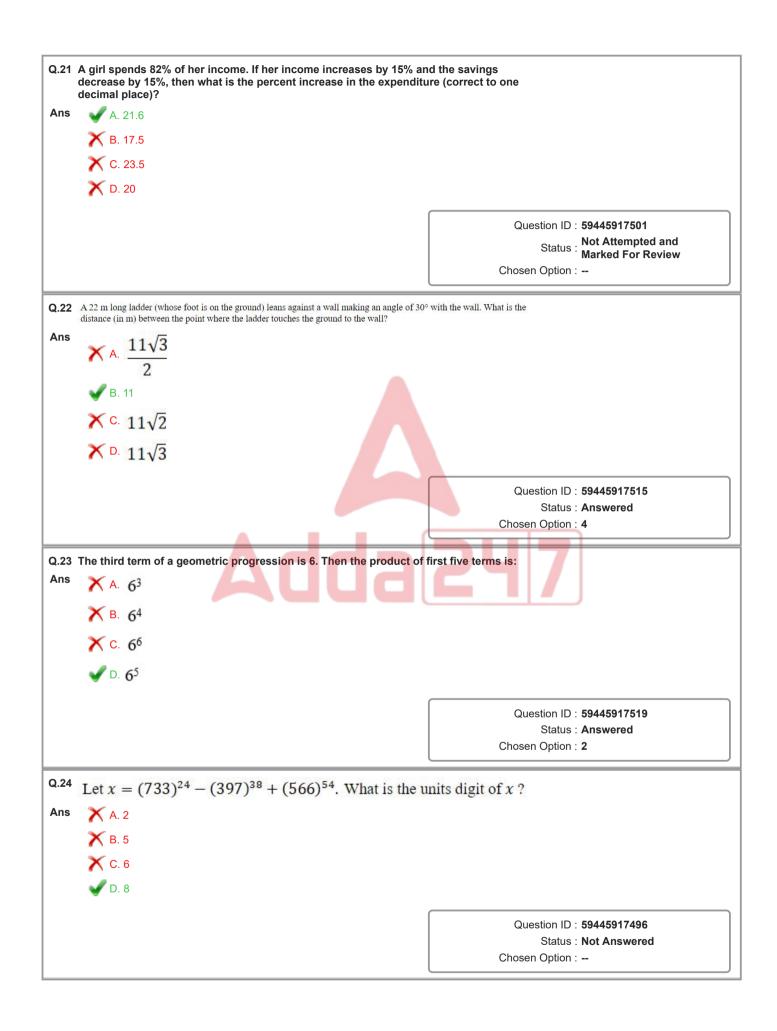




Q.17	7 In what ratio, rice costing Rs. 90 per kg be mixed with rice costing I that by selling the mixture at Rs. 86.25 per kg there is a gain of 15%	
Ans		
	<b>B</b> . 4 : 5	
	<b>X</b> C. 3 : 5	
	<b>X</b> D. 2 : 3	
		Question ID : <b>59445917509</b>
		Status : Answered Chosen Option : 1
Q.18	A bag is sold at a certain price. If it is sold at $23\frac{1}{3}\%$ of this price, there is a loss of $33\frac{1}{3}\%$ . We when it is sold at 56% of the original selling price?	That is the percentage profit
Ans	* 🗙 A. 40	
	✓ B. 60	
	X C. 75	
	🗙 D. 50	
		Question ID : <b>59445917503</b> Status : <b>Answered</b>
		Chosen Option : 2
0.40		
Q.19	The value of $\frac{5.169 \times 5.169 \times 5.169 - 64 \times (0.888)^3}{(5.169)^2 + (3.552)^2 + 4 (0.888)(5.169)}$ is (2)	(-k), where $k =$
Ans		
	✓ B. 0.383	
	X C. 0.987	
	X D. 0.456	
		Question ID : 59445917497
		Status : Answered
		Chosen Option : 2
Q.20	<ul> <li>A person by car travel a distance of 125 km in time t<sub>1</sub> and when he speed by 20%, then the time taken is t<sub>2</sub> to cover the same distance.</li> <li>: t<sub>1</sub> is equal to:</li> </ul>	
Ans	• 🗙 A. 5 : 2	
	🗙 В. 4 : 5	
	<b>C</b> . 5 : 4	
	🗙 D. 2 : 5	
		Question ID : 59445917511
		Status : Answered
		Chosen Option : 2

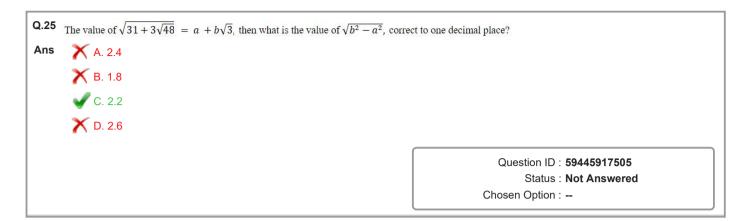




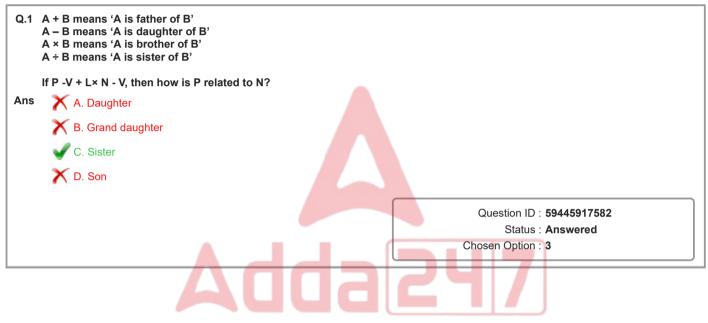






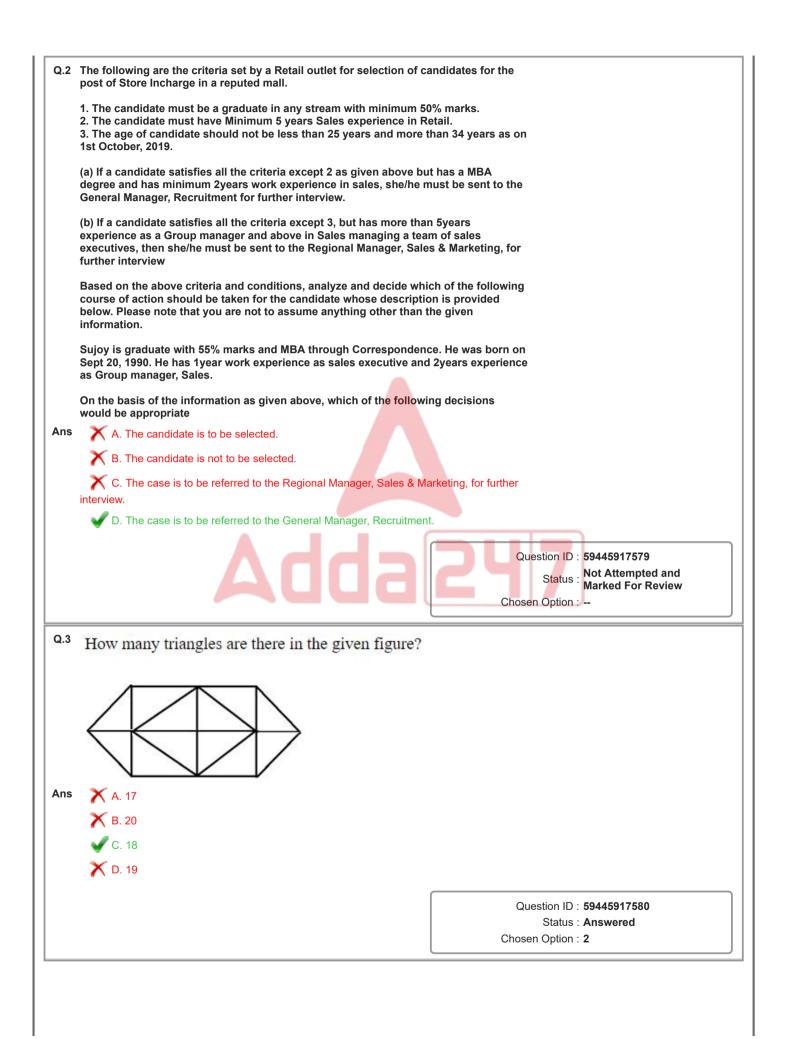


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Section : Reasoning
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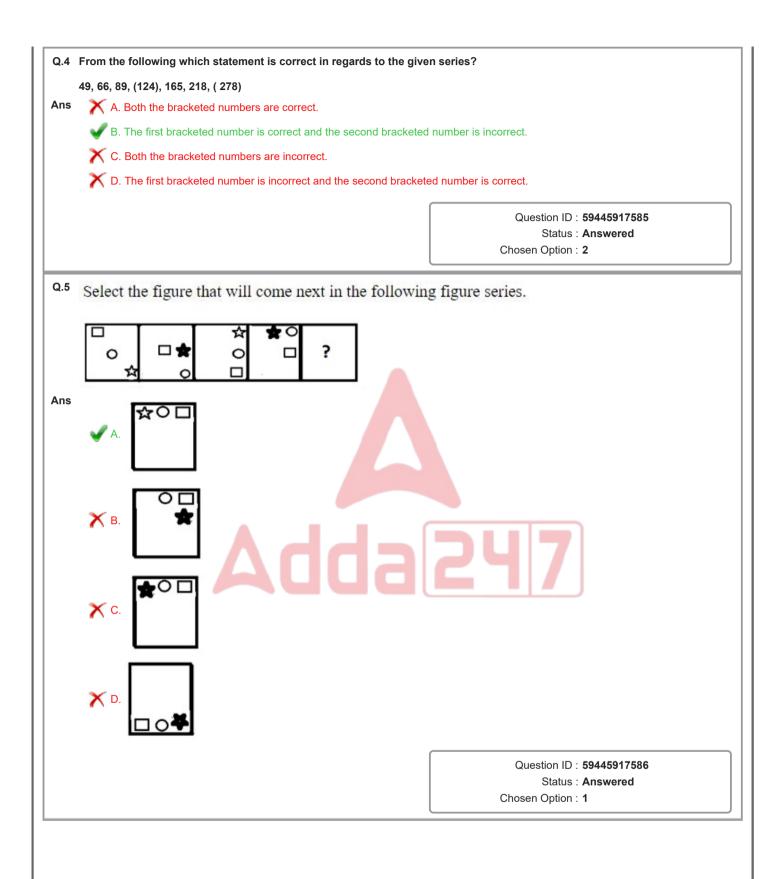
















Two statements are given followed by two conclusions I, II, III and IV. You have to consider these statements to be true, even if they seem at variance from commonly known facts. Decide which of the given conclusions logically follow/s from the given statement.
Statements:
1. All judges are lawyers. 2. Some lawyers are seniors.
Conclusions:
I. Some seniors are judges. II. Some seniors are lawyers. III. Some lawyers are judges. IV. Some judges are seniors.
X A. Only conclusions I and IV follow
X B. Only conclusions III and IV follow
X C. Only conclusions I and II follow
D. Only conclusions II and III follow
Question ID : <b>59445917591</b> Status : <b>Answered</b> Chosen Option : <b>4</b>
If Akshay is 13th in the queue from either end then, how many people are there in the
queue?
× B. 22
× C. 26
Question ID : 59445917592 Status : Answered
Chosen Option : 4
Three of the following four number pairs are alike in a certain way and one is different. Pick the odd one out.
🗙 A. 22 : 242
✓ B. 14 : 96
X C. 16 : 128
X D. 26 : 338
Question ID : <b>59445917574</b> Status : <b>Answered</b> Chosen Option : <b>2</b>





Q.9	A recent survey for Delhi showed that 44% of the families own only one car per family, 25% of the remaining families own two cars per family and the rest of the population own three or more cars per family. Then, what is the percentage of people with three or more cars?
Ans	X A. 58%
	✓ B. 42%
	C. 43%
	X D. 31%
	Question ID : <b>59445917584</b> Status : <b>Answered</b> Chosen Option : <b>2</b>
.10	A statement is given followed by two courses of actions I and II. You have to assume everything in the statement to be true, then decide which of the suggested given courses of action logically follows for pursuing. Statement: The consumption of junk food in school going children is leading to obesity and early onset of diabetes. Courses of action: I. The sale of junk food in the school canteens should be banned II. The sale of junk food should be disallowed in the 100 meter area around schools.
ns	<ul> <li>A. Both I and II follow.</li> <li>B. Only I follows.</li> </ul>
	C. Neither I nor II follows.
	X D. Only II follows.

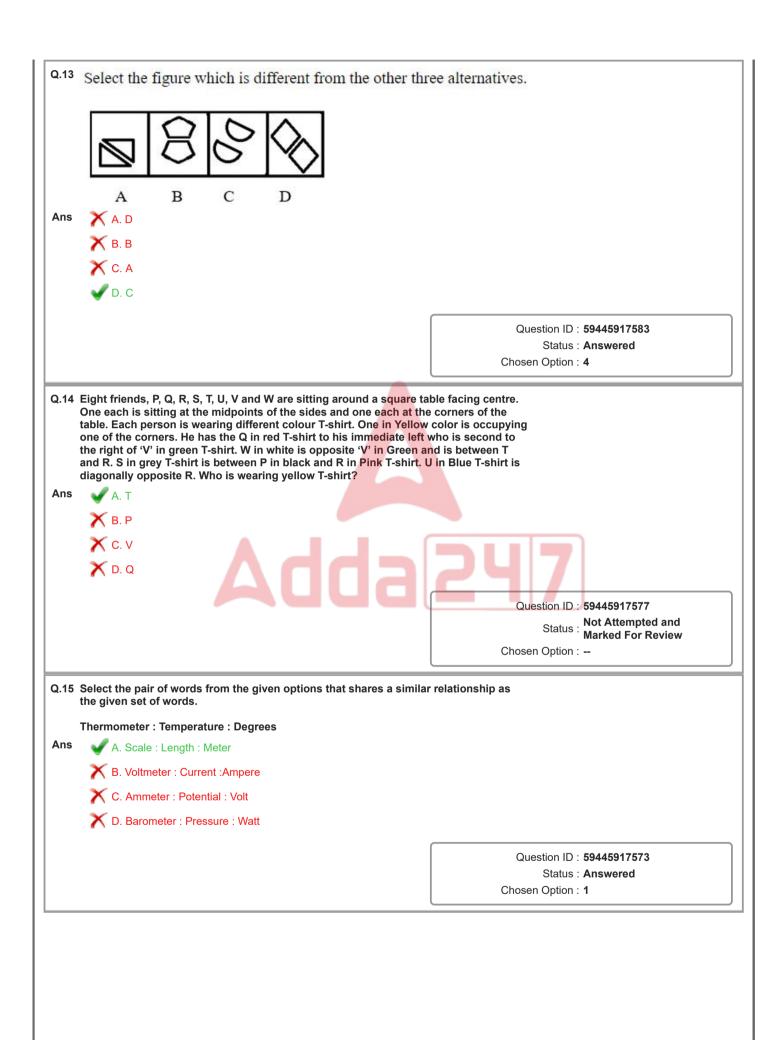




<ul> <li>Q.11 Choose the Venn diagram from the given options which represents the correct relationship amongst the following classes:</li> <li>Starfish, Shark, Fish</li> <li>Ans</li> </ul>
©. Question ID : 59445917593
Status : Marked For Review       Chosen Option : 4
Q.12 Some equations are solved on the basis of a certain system. Find the correct answer for the given equations on that basis:-
75 + 23 = 18 93 + 35 = 27
62 + 84 = ? Ans A. 40
<ul> <li>B. 44</li> <li>C. 24</li> <li>D. 42</li> </ul>
Question ID : <b>59445917594</b> Status : Not Attempted and Marked For Review Chosen Option :

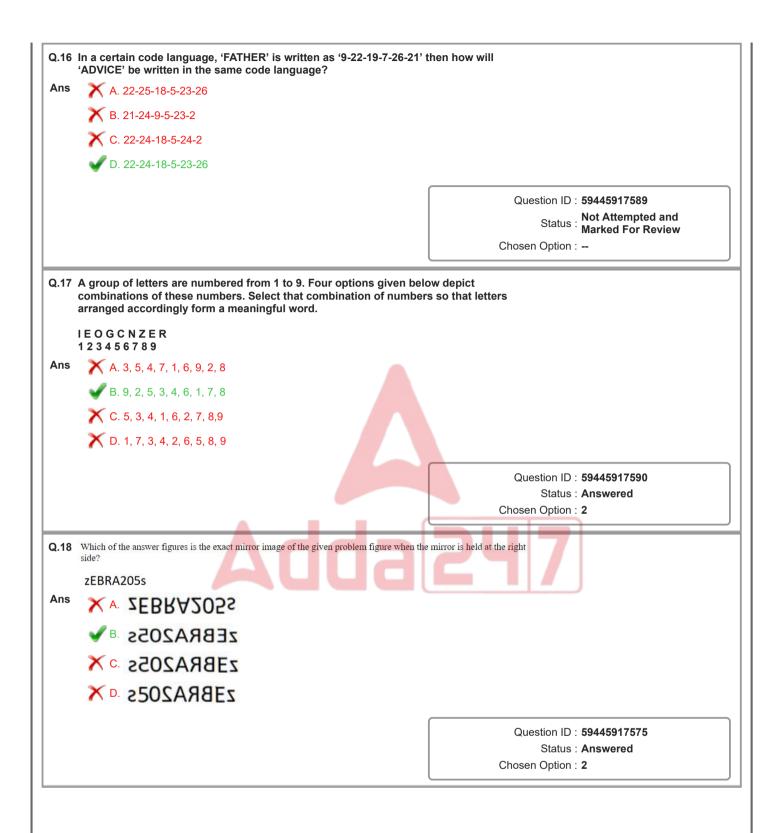






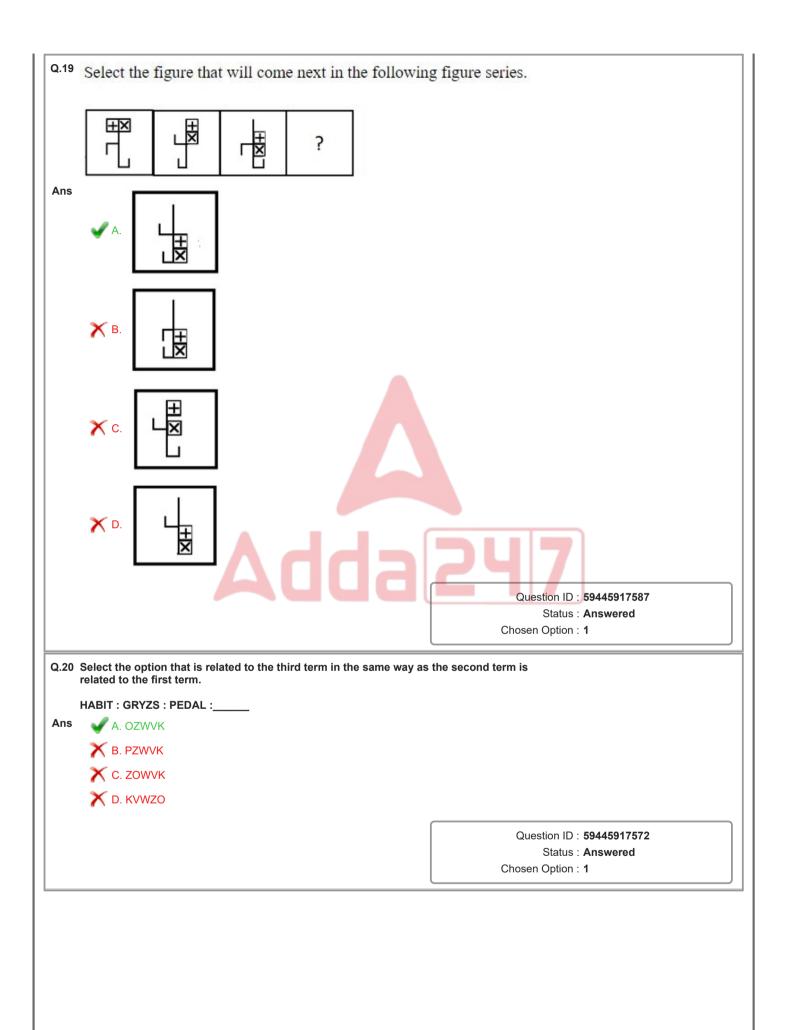
















Q.21	related to the first term.	
	Night : Nocturnal : Morning : ?	
Ans	A. Matutinal	
	X B. Slumbering	
	X C. Meridian	
	X D. Evening	
		Question ID : <b>59445917571</b> Status : <b>Answered</b>
		Chosen Option : 2
2.22	Four groups of numbers are given out of which the certain common relationship. Choose the group in related.	
Ans	A. (121, 145, 197)	
-	•	
	🗙 В. (169, 197, 227)	
	X C. (289, 325 , 363)	
	🗙 D. (81, 101, 123)	
		Question ID : 59445917595
		Status : Answered
2.23	Jayant who is the only son of his father pointed to 'he is the grandson of my son's sister's mother's fa to that boy?	Status : Answered Chosen Option : 2 the photograph of a kid and said,
	<ul> <li>'he is the grandson of my son's sister's mother's fato that boy?</li> <li>A. Son</li> <li>B. Father</li> <li>C. Brother</li> </ul>	Status : Answered Chosen Option : 2 the photograph of a kid and said,
	<ul> <li>'he is the grandson of my son's sister's mother's fato that boy?</li> <li>A. Son</li> <li>B. Father</li> </ul>	Status : Answered Chosen Option : 2 the photograph of a kid and said,
	<ul> <li>'he is the grandson of my son's sister's mother's fato that boy?</li> <li>A. Son</li> <li>B. Father</li> <li>C. Brother</li> </ul>	Status : Answered Chosen Option : 2
Q.23 Ans	<ul> <li>'he is the grandson of my son's sister's mother's fato that boy?</li> <li>A. Son</li> <li>B. Father</li> <li>C. Brother</li> </ul>	Status : Answered Chosen Option : 2
	<ul> <li>'he is the grandson of my son's sister's mother's fato that boy?</li> <li>A. Son</li> <li>B. Father</li> <li>C. Brother</li> </ul>	Status : Answered Chosen Option : 2 the photograph of a kid and said, ather-in-law. How is Jayant related Question ID : 59445917581 Status : Answered
	<ul> <li>'he is the grandson of my son's sister's mother's fato that boy?</li> <li>A. Son</li> <li>B. Father</li> <li>C. Brother</li> </ul>	Status : Answered Chosen Option : 2
Ans	<ul> <li>'he is the grandson of my son's sister's mother's fato that boy?</li> <li>A. Son</li> <li>B. Father</li> <li>C. Brother</li> </ul>	Estatus : Answered Chosen Option : 2 the photograph of a kid and said, ather-in-law. How is Jayant related Question ID : 59445917581 Status : Answered Chosen Option : 2
Ans	<ul> <li>'he is the grandson of my son's sister's mother's fato that boy?</li> <li>A. Son</li> <li>B. Father</li> <li>C. Brother</li> <li>D. Sister</li> </ul> If each of the letters in the English alphabet is assigned beginning A = 1, B = 3 and so on, what will be the total sectors.	Estatus : Answered Chosen Option : 2 the photograph of a kid and said, ather-in-law. How is Jayant related Question ID : 59445917581 Status : Answered Chosen Option : 2
Ans ).24	<ul> <li>'he is the grandson of my son's sister's mother's fato that boy?</li> <li>A. Son</li> <li>B. Father</li> <li>C. Brother</li> <li>D. Sister</li> </ul> If each of the letters in the English alphabet is assigned beginning A = 1, B = 3 and so on, what will be the to 'EARLIER': A. 90	Estatus : Answered Chosen Option : 2 the photograph of a kid and said, ather-in-law. How is Jayant related Question ID : 59445917581 Status : Answered Chosen Option : 2
Ans	<ul> <li>'he is the grandson of my son's sister's mother's fatto that boy?</li> <li>A. Son</li> <li>B. Father</li> <li>C. Brother</li> <li>D. Sister</li> </ul> If each of the letters in the English alphabet is assigned beginning A = 1, B = 3 and so on, what will be the to 'EARLIER': <ul> <li>A. 90</li> <li>B. 99</li> </ul>	Status : Answered         Chosen Option : 2         the photograph of a kid and said,         ather-in-law. How is Jayant related         Question ID : 59445917581         Status : Answered         Chosen Option : 2
Ans	<ul> <li>'he is the grandson of my son's sister's mother's fatto that boy?</li> <li>A. Son</li> <li>B. Father</li> <li>C. Brother</li> <li>D. Sister</li> </ul> If each of the letters in the English alphabet is assigned beginning A = 1, B = 3 and so on, what will be the to 'EARLIER': <ul> <li>A. 90</li> <li>B. 99</li> <li>C. 125</li> </ul>	Status : Answered         Chosen Option : 2         the photograph of a kid and said,         ather-in-law. How is Jayant related         Question ID : 59445917581         Status : Answered         Chosen Option : 2
Ans	<ul> <li>'he is the grandson of my son's sister's mother's fatto that boy?</li> <li>A. Son</li> <li>B. Father</li> <li>C. Brother</li> <li>D. Sister</li> </ul> If each of the letters in the English alphabet is assigned beginning A = 1, B = 3 and so on, what will be the to 'EARLIER': <ul> <li>A. 90</li> <li>B. 99</li> </ul>	Status : Answered         Chosen Option : 2         the photograph of a kid and said,         ather-in-law. How is Jayant related         Question ID : 59445917581         Status : Answered         Chosen Option : 2
<b>Ans</b>	<ul> <li>'he is the grandson of my son's sister's mother's fatto that boy?</li> <li>A. Son</li> <li>B. Father</li> <li>C. Brother</li> <li>D. Sister</li> </ul> If each of the letters in the English alphabet is assigned beginning A = 1, B = 3 and so on, what will be the to 'EARLIER': <ul> <li>A. 90</li> <li>B. 99</li> <li>C. 125</li> </ul>	Status: Answered         Chosen Option: 2
Ans	<ul> <li>'he is the grandson of my son's sister's mother's fatto that boy?</li> <li>A. Son</li> <li>B. Father</li> <li>C. Brother</li> <li>D. Sister</li> </ul> If each of the letters in the English alphabet is assigned beginning A = 1, B = 3 and so on, what will be the to 'EARLIER': <ul> <li>A. 90</li> <li>B. 99</li> <li>C. 125</li> </ul>	Estatus:       Answered         Chosen Option:       2
Ans	<ul> <li>'he is the grandson of my son's sister's mother's fatto that boy?</li> <li>A. Son</li> <li>B. Father</li> <li>C. Brother</li> <li>D. Sister</li> </ul> If each of the letters in the English alphabet is assigned beginning A = 1, B = 3 and so on, what will be the to 'EARLIER': <ul> <li>A. 90</li> <li>B. 99</li> <li>C. 125</li> </ul>	Status: Answered         Chosen Option: 2         the photograph of a kid and said,         Question ID : 59445917581         Status : Answered         Chosen Option : 2         gned odd numerical value         of the letters of the word





	In an exam, Hiral scored more marks than Jaya. Kiara has less m Latika has as much marks as Jaya. John has more marks than H can definitely be drawn from the above statements?			
Ans	🗙 A. Zubin has more marks than John.			
	🗙 B. Jaya has lesser marks than Kiara.			
	🗙 C. Kiara has more marks than Latika.			
	D. Latika has lesser marks than Hiral			
		Question ID : 59445917576		
		Status : <b>Answered</b> Chosen Option : <b>4</b>		
ectio	on : General English			
Q.1	Choose the word that means the opposite of the highlighted wor	d in the sentence.		
	The supervisor was asked to slacken the pace of work as there w hurry.	vas no immediate		
Ans	X A. monitor			
	B. accelerate			
	X C. supervise			
	D. control			
		Question ID : <b>59445917644</b>		
		Status : Answered Chosen Option : 2		
	Choose the correct structure to complete the sentence. The government helps the poor by providing them loans at	rates of interest.		
	X B. mainly lesser			
	C. mostly less			
	D. very low			
	U. very low			
		Question ID : 59445917650		
		Status : Answered		
		Chosen Option : 2		
Q.3	Choose the correct word(s) to fill in the blanks.			
	the eve the Prime Minister's visit, there was tight sec and en route the venue.	urity the airport		
Ans	X A. At; of; in; along			
	X B. By; of; at; in			
	C. On; of; at; to			
	D. In; of; in; to			
		Question ID : 59445917639		
		Status : <b>Answered</b> Chosen Option : <b>3</b>		





Q.4	Choose the correct phrase or expression	on to complete the sentence.
	My former colleague is now his family.	because he has no job and he has to support
ns	A. in a spot	
	X B. in charge	
	C. in check	
	D. in favour	
	D. In lavour	
		Question ID : 59445917649
		Status : Answered
		Chosen Option : 4
ຊ.5	Choose the correct word(s) to fill in the	e blanks.
		st office schemes is that we get exemption
Ans	tax.	
	X A. of; by; in	
	X B. in; among; by	
	X C. in; by; in	
	V D. of; in; from	
		Question ID : 59445917638
		Status : Answered
		Chosen Option : 4
Q.6	Choose the correct spelling from the op	ptions given.
Ans	A. repetition	
	X B. reparticion	
	C. repatision	
	D. repeatition	
		Question ID : 59445917647
		Status : <b>Answered</b> Chosen Option : <b>1</b>
Q.7	Choose the word that means the oppos	site of the highlighted word in the sentence.
	Rohit's analysis of the poem is profoun	ıd.
Ans	🗸 A. superficial	
	🗙 B. exacting	
	X C. good	
	X D. mysterious	
		Question ID : 59445917645
		Status : Answered
		Chosen Option : 4





	sentence.			
<b>A</b> ma	The police said that the exam paper was stolen, copied and sold for a high price.			
Ans	A. repeated			
	X B. initiated			
	X C. imitated			
	V D. reproduced			
		Question	ID : <b>59445917643</b>	
			us : Answered	
		Chosen Optio	on : <b>4</b>	
Q.9	Identify the part of the sentence which contains an error.			
	According to the finance ministry, / every senior citizens / w new scheme.	I benefit a lot / from the		
Ans	A. every senior citizens			
	🗙 B. will benefit a lot			
	C. from the new scheme			
	X D. According to the finance ministry,			
		Question	ID : <b>59445917637</b>	
		State	us : Answered	
Q.10	Complete the sentence with the appropriate word.	Chosen Optio		
	Complete the sentence with the appropriate word. Students should pay to the explanations given by classroom. A. attention	Chosen Optio		
Q.10 Ans	Students should pay to the explanations given by classroom.	Chosen Optio		
	Students should pay to the explanations given by classroom. A. attention B. concentration	Chosen Optio		
	Students should pay to the explanations given by classroom. A. attention B. concentration C. notice	Chosen Optio		
	Students should pay to the explanations given by classroom. A. attention B. concentration	Chosen Optio		
	Students should pay to the explanations given by classroom. A. attention B. concentration C. notice	Chosen Option	on : 1	
	Students should pay to the explanations given by classroom. A. attention B. concentration C. notice	Chosen Option he teachers in the Question State	on : 1 D : 59445917652 us : Answered	
	Students should pay to the explanations given by classroom. A. attention B. concentration C. notice	Chosen Option	Dr. 59445917652 us : Answered	
Ans	Students should pay to the explanations given by classroom. A. attention B. concentration C. notice	Chosen Option he teachers in the Question State	on : 1 D : 59445917652 us : Answered	
Ans	Students should pay to the explanations given by classroom. A. attention B. concentration C. notice D. focus	Chosen Option he teachers in the Question State Chosen Option	Dr. 59445917652 us : Answered	
Ans Ω.11	Students should pay to the explanations given by classroom. A. attention B. concentration C. notice D. focus Complete the sentence with the appropriate word. Pedestrians should be when walking on the road roads get slippery.	Chosen Option he teachers in the Question State Chosen Option	Dr. 59445917652 us : Answered	
Ans Ω.11	Students should pay to the explanations given by classroom. A. attention B. concentration C. notice D. focus Complete the sentence with the appropriate word. Pedestrians should be when walking on the road roads get slippery. A. dangerous B. cautious	Chosen Option he teachers in the Question State Chosen Option	on : 1 D : 59445917652 us : Answered	
Ans Ω.11	Students should pay to the explanations given by classroom.   A. attention   B. concentration   C. notice   D. focus   Complete the sentence with the appropriate word. Pedestrians should be when walking on the road roads get slippery. A. dangerous	Chosen Option he teachers in the Question State Chosen Option	on : 1 D : 59445917652 us : Answered	
Ans Ω.11	Students should pay to the explanations given by classroom. A. attention B. concentration C. notice D. focus Complete the sentence with the appropriate word. Pedestrians should be when walking on the road roads get slippery. A. dangerous B. cautious	Chosen Option he teachers in the Question State Chosen Option	on : 1 D : 59445917652 us : Answered	
Ans Ω.11	Students should pay to the explanations given by classroom.   A. attention   B. concentration   C. notice   D. focus   Complete the sentence with the appropriate word.   Pedestrians should be when walking on the road roads get slippery.   A. dangerous   B. cautious   C. clever	Chosen Option he teachers in the Question State Chosen Option	on : 1 ID : 59445917652 us : Answered on : 1	
Ans	Students should pay to the explanations given by classroom.   A. attention   B. concentration   C. notice   D. focus   Complete the sentence with the appropriate word.   Pedestrians should be when walking on the road roads get slippery.   A. dangerous   B. cautious   C. clever	Chosen Option he teachers in the Question Statu Chosen Option on rainy days, as the Question	on : 1 D : 59445917652 us : Answered	





0 12	Change the word that best replaces the words highlighted in the contenes			
Q.12	Choose the word that best replaces the words highlighted in the sentence.			
Ane	RADAR is a word formed from the initial letters of a set of words.			
Ans	A. an anachronism			
	B. an anagram			
	X C. an abbreviation			
	🗙 D. an idiom			
	Question ID : 59445917641			
	Status : Answered			
	Chosen Option : 3			
Q.13	Choose the correct phrase or expression to complete the sentence.			
	She likes to wear clothes that would make her in a group.			
Ans	$\mathbf{X}$ A. stand for			
	B. stand out			
	C. stand to			
	X D. stand by			
	Question ID : 59445917648			
	Status : Answered			
	Chosen Option : 1			
Q.14	Choose the correct order of sentences to form a meaningful paragraph.			
Ans	X A. He has started spraying chemical insecticides and pesticides on the land			
	indiscriminately. He has added a new chapter to this record of destruction.			
	As man proceeds to achieve his goal of conquering nature, he starts destroying it.			
	As a result, birds, mammals, fishes and practically every form of wildlife are being killed.			
	X B. He has added a new chapter to this record of destruction. As a result, birds, mammals, fishes and practically every form of wildlife are being killed.			
	As man proceeds to achieve his goal of conquering nature, he starts destroying it. He has started spraying chemical insecticides and pesticides on the land indiscriminately.			
	C. As man proceeds to achieve his goal of conquering nature, he starts destroying it.			
	He has added a new chapter to this record of destruction.			
	He has started spraying chemical insecticides and pesticides on the land indiscriminately. As a result, birds, mammals, fishes and practically every form of wildlife are being killed.			
	igma D. He has started spraying chemical insecticides and pesticides on the land			
	indiscriminately. As man proceeds to achieve his goal of conquering nature, he starts destroying it.			
	He has added a new chapter to this record of destruction. As a result, birds, mammals, fishes and practically every form of wildlife are being killed.			
	Question ID : 59445917655			
	Question ID : 59445917655 Status : Not Attempted and Marked For Review Chosen Option :			





ns	The current level of pollution in the capital city is very high.				
	B. usual				
	C. present				
	D. electric				
		Question ID : <b>59445917642</b> Status : <b>Answered</b>			
		Chosen Option : 3			
.16 (	Choose the correct structure to complete the sentence.				
٦	The manager asked me the conditions of appointment.				
Ans	A. if I would accept				
	X B. would I accept				
	X C. if I will accept				
	X D. will I accept				
		Question ID : 59445917651 Status : Answered			
		Chosen Option : 1			
Ans	<ul> <li>visit / home / on / he / to / aunt / promised / his / way / his</li> <li>A. He promised on his way home to visit his aunt.</li> <li>B. On his way to his aunt, he promised visit home.</li> <li>C. To visit his aunt, he promised on his way home.</li> <li>D. He promised to visit his aunt on his way home.</li> </ul>	<b>Question ID : 59445917654</b>			
		Status : <b>Answered</b> Chosen Option : <b>4</b>			
	Choose the correct spelling from the options given.				
Ans	X A. achive				
	B. achieve				
	C. acheeve				
	X D. acheive				
		Question ID : 59445917646			





Q.19	Choose the word (or words) that would best replace the words highlighted in the sentence.
Ans	<ul> <li>They will be celebrating the 25th year of their marriage day.</li> <li>A. marriage anniversary</li> <li>B. marriage</li> <li>C. marriage function</li> <li>D. wedding</li> </ul>
	Question ID : <b>59445917640</b> Status : <b>Answered</b> Chosen Option : <b>1</b>
Q.20 Ans	Identify the part of the sentence which contains an error. Many of our staff / find it difficult to / follow her as she / don't speak clearly. A don't speak clearly B. find it difficult to C. Many of our staff D. follow her as she Question ID : 59445917636 Status :: Marked For Review Chosen Option : 1 Adda 2997





Read the passage carefully and answer the questions that follow.

A certain king was travelling from one place to another in disguise because he wanted to check on his officers.

One day he was resting under a tree near a house which belonged to a goldsmith. He overheard a conversation between the father and the son in that house. The son was saying, "Father, don't worry, I shall cheat my customers fully." The king wanted to test him.

The next day the King sent for the son and said, "Make a gold crown for the temple goddess. Come to the palace every day and work on the crown."

The son agreed. He went every day and worked on the gold crown. In the evening when he returned home, he closed his room and used to work on something. He would go to bed late at night.

After some days he finished the work. On the last day before he went to the palace, he went to the river early in the morning to do puja. Then he went to the palace. After finishing the work he took the gold crown to the river to wash it. The soldiers went with him. He came back with the crown. The king was pleased at the work and also that the young man could not cheat him. He said, "You promised your father that you would cheat people fully. But now you know that you cannot." After some silence the young man replied, "I did cheat you fully, my lord."

#### SubQuestion No : 21

Ans

Q.21 What is the main idea of the passage?

- A The cleverness of the goldsmith's son
  - The goodness of the King in finding out his
- × <sup>B.</sup> people's problems
- $\mathbf{X}$  c. The cleverness of the King in moving in disguise
  - The King's clever trick to prevent cheating by
- ★ D. the goldsmith's son

Question ID : **59445918671** Status : **Answered** Chosen Option : **1** 





Read the passage carefully and answer the questions that follow.

A certain king was travelling from one place to another in disguise because he wanted to check on his officers.

One day he was resting under a tree near a house which belonged to a goldsmith. He overheard a conversation between the father and the son in that house. The son was saying, "Father, don't worry, I shall cheat my customers fully." The king wanted to test him.

The next day the King sent for the son and said, "Make a gold crown for the temple goddess. Come to the palace every day and work on the crown."

The son agreed. He went every day and worked on the gold crown. In the evening when he returned home, he closed his room and used to work on something. He would go to bed late at night.

After some days he finished the work. On the last day before he went to the palace, he went to the river early in the morning to do puja. Then he went to the palace. After finishing the work he took the gold crown to the river to wash it. The soldiers went with him. He came back with the crown. The king was pleased at the work and also that the young man could not cheat him. He said, "You promised your father that you would cheat people fully. But now you know that you cannot." After some silence the young man replied, "I did cheat you fully, my lord."

#### SubQuestion No : 22

- Q.22 Which of these words describes the tone of the passage accurately?
- Ans X A. sentimental
  - 🗙 B. Objective
  - × c. moralistic
  - V D. mysterious

Question ID : **59445918672** Status : **Answered** Chosen Option : **4** 





Read the passage carefully and answer the questions that follow.

A certain king was travelling from one place to another in disguise because he wanted to check on his officers.

One day he was resting under a tree near a house which belonged to a goldsmith. He overheard a conversation between the father and the son in that house. The son was saying, "Father, don't worry, I shall cheat my customers fully." The king wanted to test him.

The next day the King sent for the son and said, "Make a gold crown for the temple goddess. Come to the palace every day and work on the crown."

The son agreed. He went every day and worked on the gold crown. In the evening when he returned home, he closed his room and used to work on something. He would go to bed late at night.

After some days he finished the work. On the last day before he went to the palace, he went to the river early in the morning to do puja. Then he went to the palace. After finishing the work he took the gold crown to the river to wash it. The soldiers went with him. He came back with the crown. The king was pleased at the work and also that the young man could not cheat him. He said, "You promised your father that you would cheat people fully. But now you know that you cannot." After some silence the young man replied, "I did cheat you fully, my lord."

#### SubQuestion No : 23

- Q.23 "He overheard the conversation . . ." This means that
- Ans
- X A the King heard them talk over the roof of their house.
- ✓ <sup>B</sup> the King listened to the conversation without being seen.
- $\times$  c. the King heard the conversation over and over again.
- $\mathbf{X} \, \mathbf{D}$  the King could not hear the conversation fully.

Question ID : **59445918670** Status : **Answered** Chosen Option : **3** 





Read the passage carefully and answer the questions that follow.

A certain king was travelling from one place to another in disguise because he wanted to check on his officers.

One day he was resting under a tree near a house which belonged to a goldsmith. He overheard a conversation between the father and the son in that house. The son was saying, "Father, don't worry, I shall cheat my customers fully." The king wanted to test him.

The next day the King sent for the son and said, "Make a gold crown for the temple goddess. Come to the palace every day and work on the crown."

The son agreed. He went every day and worked on the gold crown. In the evening when he returned home, he closed his room and used to work on something. He would go to bed late at night.

After some days he finished the work. On the last day before he went to the palace, he went to the river early in the morning to do puja. Then he went to the palace. After finishing the work he took the gold crown to the river to wash it. The soldiers went with him. He came back with the crown. The king was pleased at the work and also that the young man could not cheat him. He said, "You promised your father that you would cheat people fully. But now you know that you cannot." After some silence the young man replied, "I did cheat you fully, my lord."

#### SubQuestion No : 24

Q.24 Which of the following CANNOT be inferred from the passage?

#### Ans

The King understood how the goldsmith's son cheated him.

#### 🗙 в.

A.

The King wanted to observe how his people lived their lives.

X c. The goldsmith's son kept to his promise to his father.

▶ D. The King often travelled through his kingdom in disguise.

Question ID : **59445918673** Status : **Answered** Chosen Option : **1** 





Read the passage carefully and answer the questions that follow.

A certain king was travelling from one place to another in disguise because he wanted to check on his officers.

One day he was resting under a tree near a house which belonged to a goldsmith. He overheard a conversation between the father and the son in that house. The son was saying, "Father, don't worry, I shall cheat my customers fully." The king wanted to test him.

The next day the King sent for the son and said, "Make a gold crown for the temple goddess. Come to the palace every day and work on the crown."

The son agreed. He went every day and worked on the gold crown. In the evening when he returned home, he closed his room and used to work on something. He would go to bed late at night.

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#### SubQuestion No : 25

- Q.25 Why was the King travelling from one place to another in disguise?
- Ans Ans A. He wanted to spy on his officials.
  - Х в. He loved travelling from place to place.
  - X c. He wanted to find a goldsmith to make a crown.
  - ➤ D. He always wanted to wander in disguise.

Question ID : **59445918669** Status : **Answered** Chosen Option : **1** 





Section : Domain Knowledge

- Q.1 The current flowing in the lines toward a balance load connected in delta are Ia=100 $\angle 0^{\circ}$ , Ib=141.4 $\angle 225^{\circ}$ , Ic=100  $\angle 90^{\circ}$ ; find the symmetrical component of the line current:
- Ans  $\bigwedge$  A.  $I_{a0} = 0.07 \angle 115^{\circ}$ ,  $I_{a1} = 121 \angle 150^{\circ}$ ,  $I_{a2} = 209.88 \angle 5^{\circ}$   $\bigwedge$  B.  $I_{a0} = 7 \angle 125^{\circ}$ ,  $I_{a1} = 211 \angle 125^{\circ}$ ,  $I_{a2} = 229.88 \angle 150^{\circ}$   $\checkmark$  C.  $I_{a0} = 0.007 \angle 45^{\circ}$ ,  $I_{a1} = 111 \angle 15^{\circ}$ ,  $I_{a2} = 29.88 \angle 105^{\circ}$  $\bigwedge$  D.  $I_{a0} = 0.7 \angle 145^{\circ}$ ,  $I_{a1} = 131 \angle 105^{\circ}$ ,  $I_{a2} = 290.88 \angle 10^{\circ}$

Question ID : **59445918607** Status : **Marked For Review** Chosen Option : **1** 

Q.2 A signal having a spectrum ranging from dc to 10 KHz Is to be sampled and converted into discrete form. What is the minimum number of samples per second that must be taken to ensure recovery? Ans A. 20 K samples/sec B. 2000 samples/sec C. 20 samples/sec D. 200 samples/sec Question ID : 59445918582 Status : Answered Chosen Option : 1 Q.3 To improve power factor and feeder voltage control for a which compensation is required: Ans 🖉 A. Shunt capacitor B. Synchronous condensers C. Series capacitor X D. Excitation control

Question ID : 59445918604	
Status : Answered	
Chosen Option : 1	

Q.4 Find the laplacian of the potential function  $V=x^2+y^2+z^2$ 

Ans X A. 36 V/m<sup>2</sup>

- X в. 60 V/m<sup>2</sup>
- 🖌 C. 6 V/m<sup>2</sup>
- 🗙 D. 83 V/m<sup>2</sup>

Question ID : **59445918572** Status : **Answered** Chosen Option : **3** 





Q.5 The minimum number of watt meters required to measure 3-phase, 3-wire balance or unbalanced power is:



Ans

Question ID : **59445918564** Status : **Answered** Chosen Option : **2** 

- Q.6 Calculate the magnetic flux density due to circular coil of 100 ampere turns and area of 70 cm<sup>2</sup> on the axis of the coil at a distance of 10 cm from the centre.
  - 🗙 A. 130.7 µ Tesla
    - 🗙 в. 13.7 µ Tesla
    - 🖌 c. 103.7 μ Tesla
    - 🗙 D. 130.07 # Tesla

Question ID : **59445918573** Status : **Answered** Chosen Option : **2** 

**Q.7** For a system transfer function  $H(s) = \frac{s+5}{s^2+5s+6}$ , Find the zero state response when the input x(t) is  $e^{-3t} u(t)$ 

Ans Ans A.  $Y(t) = 5e^{-2t}u(t) - 7e^{-7t}u(t) - 9te^{-9t}u(t)$   $(t) = 2e^{-4t}u(t) - 9e^{-6t}u(t) - 4te^{-8t}u(t)$   $(t) = 9e^{-2t}u(t) - 6e^{-3t}u(t) - 8te^{-3t}u(t)$  $(t) = 3e^{-2t}u(t) - 3e^{-3t}u(t) - 2te^{-3t}u(t)$ 

> Question ID : **59445918584** Status : **Answered** Chosen Option : **2**



Ans



Q.8 The necessary and sufficient condition on the impulse response for stability is:

$$\begin{array}{l} \bigstar \quad A. \quad \sum_{k=0}^{1} |h(k)| = \infty \\ \end{array} \\ \end{array} \\ \begin{array}{l} \bigstar \quad B. \quad \sum_{k=-\infty}^{0} |h(k)| > \infty \\ \end{array} \\ \end{array} \\ \begin{array}{l} \checkmark \quad C. \quad \sum_{k=-\infty}^{\infty} |h(k)| < \infty \\ \end{array} \\ \end{array} \\ \begin{array}{l} \bigstar \quad D. \quad \sum_{k=0}^{\infty} |h(k)| > \infty \end{array} \end{array}$$

Question ID : **59445918577** Status : **Answered** Chosen Option : **3** 

Q.9 When a single phase supply is connected across a single phase winding, the nature of the magnetic field produced is:

## Ans V A. Pulsating in nature

- ig X B. Constant in magnitude and rotating at synchronous speed
- X C. Constant in magnitude and direction
- 🗙 D. Rotating in nature

Question ID : **59445918597** Status : **Answered** Chosen Option : **1** 

Q.10 Determine the force between two parallel conductors of length 1m separated by 50 cm in air and carrying currents of 30A in same direction and opposite direction.

Ans 
$$\bigwedge$$
 A.  $36x10^{-3}$  N &  $0.036x^{-3}$   
 $\bigwedge$  B.  $3.6x10^{-3}$  N &  $0.306x^{-3}$   
 $\checkmark$  C.  $0.36x10^{-3}$  N &  $0.36x^{-3}$   
 $\bigwedge$  D.  $0.6x10^{-3}$  N &  $0.360x^{-3}$ 

Question ID : **59445918567** Status : **Answered** Chosen Option : **3** 

Q.11 The approximate efficiency of a three phase, 50 Hz, 4 pole induction motor running at 1350 rpm is:

Ans X A. 94 percent B. 90 percent C. 40 percent D. 65 percent

> Question ID : **59445918601** Status : **Answered** Chosen Option : **1**







Ans A. High current will flow through the meter and meter may burnout.

- X B. The meter acts as a voltmeter.
- $\mathbf{X}$  C. The current will not flow through the meter.
- X D. The meter reads the correct reading.

Question ID : **59445918629** Status : **Answered** Chosen Option : **1** 

Q.13 A single phase 230 V, 1 kW heater is connected across single phase 230 V, 50 Hz supply through a diode. Calculate the power delivered to the heater element.

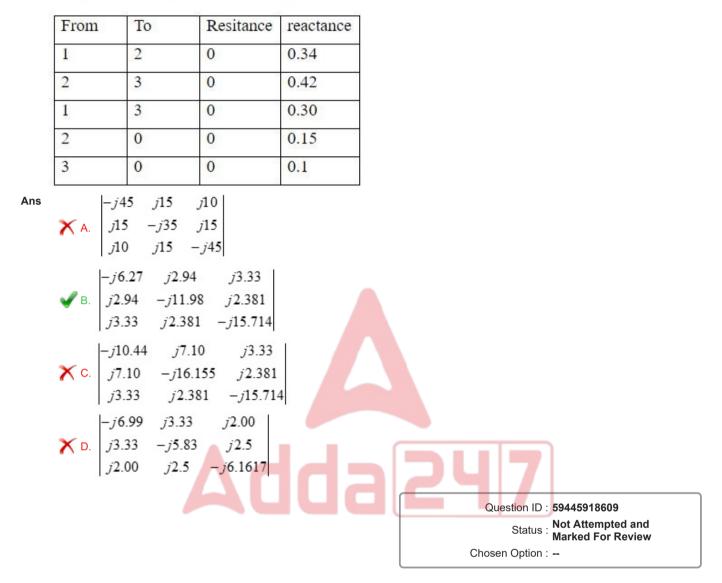


Adda 24

Question ID : **59445918655** Status : **Answered** Chosen Option : **3** 







Q.14 Find the Y bus matrix for the data given below.

- Q.15 How many numbers of coils will be there in a dynamo type power factor meter for balance three phase load?
- Ans
- X A. Three current coil and three pressure coil





X D. Two current coil and one pressure coil

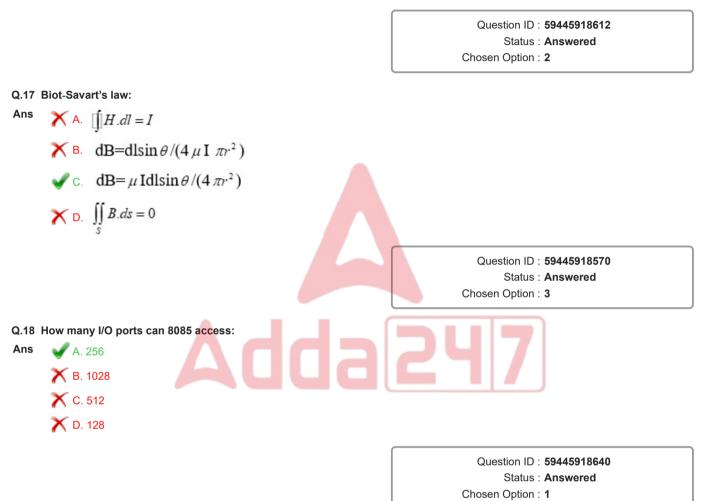
Question ID : **59445918632** Status : **Answered** Chosen Option : **4** 





Q.16 A three phase generator delivers 1 pu power to an infinite bus through a transmission network when a fault occurs. The maximum power which can be transferred during per fault, during fault, and post fault conditions are 1.75 pu, 0.4 pu, and 1.25 pu. Find the critical clearing angle.

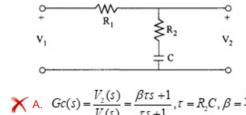
Ans	🗙 A. 41.77°
	🗙 B. 71.97°
	✔ C. 61.57°
	🗙 D. 51.27°







Q.19 Find the lag compensation of the given RC network:



Ans

X A.  $Gc(s) = \frac{V_2(s)}{V_1(s)} = \frac{\beta \tau s + 1}{\tau s + 1}, \tau = R_2 C, \beta = \frac{R_1 + R_2}{R_1} > 1$  $\checkmark B. \quad Gc(s) = \frac{V_2(s)}{V_1(s)} = \frac{\tau s + 1}{\beta \tau s + 1}, \tau = R_2C, \beta = \frac{R_1 + R_2}{R_2} > 1$ X C.  $Gc(s) = \frac{V_2(s)}{V_1(s)} = \frac{\tau s + 1}{\beta s + 1}, \tau = R_2 C, \beta = \frac{R_1 + R_2}{R_2} > 1$ X D.  $Gc(s) = \frac{V_2(s)}{V_1(s)} = \frac{\tau s + 1}{\beta(\tau s + 1)}, \tau = R_2C, \beta = \frac{R_1 + R_2}{R_2} > 1$ 

Question ID : **59445918620** Status : **Answered** Chosen Option : **1** 

Q.20 The power input in blocked rotor test performed on a three phase induction motor is approximately equal to:



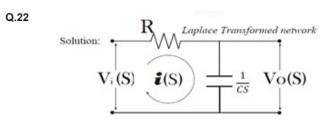
Q.21 Synchronous generators connected in parallel should maintain:

- Ans X A. Infinite frequency and infinite voltage
  - ig imes B. Variable frequency and variable voltage
  - imes C. Constant frequency and variable voltage
  - D. Constant frequency and constant voltage

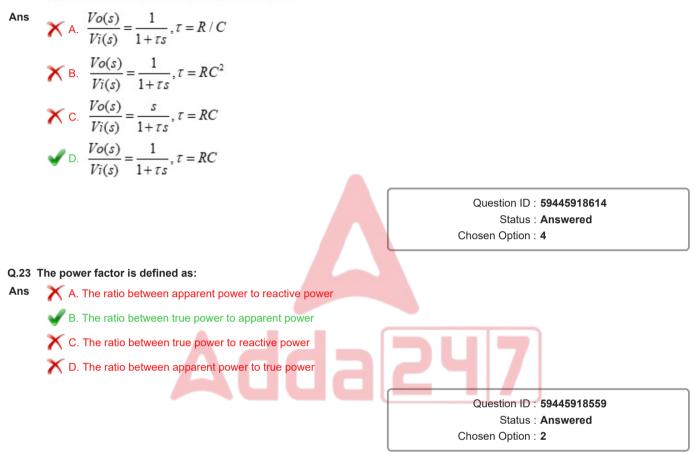
Question ID : **59445918600** Status : **Answered** Chosen Option : **4** 







The transfer function of the circuit is:



Q.24 An amplifier has mid band voltage gain (A<sub>v</sub>) of 1000 with F<sub>L</sub>=50Hz and F<sub>H</sub>=50KHz, if 5% feedback is applied then calculate gain F<sub>L</sub> and F<sub>H</sub> with feedback
 6

Ans

★ A.  $A_v = 9.6, F_{Lv} = 98Hz, F_{Hv} = 55MHz$ ★ B.  $A_v = 9.06, F_{Lv} = 908Hz, F_{Hv} = 2.55MHz$ ★ C.  $A_v = 19.6, F_{Lv} = 0.98Hz, F_{Hv} = 2.55MHz$ ★ D.  $A_v = 1.6, F_{Lv} = 9.8Hz, F_{Hv} = 25.5MHz$ 

> Question ID : **59445918639** Status : **Answered** Chosen Option : **2**



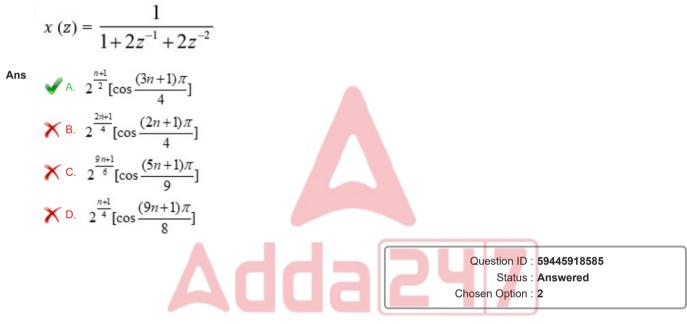


Q.25 What about the multiplication and division instructions of 8085?

- Ans X A. Only multiplication instruction
  - ig imes B. Both multiplication and division instruction
  - X C. Only division instruction
  - D. Not support multiplication and division instruction

Question ID : **59445918641** Status : **Answered** Chosen Option : **4** 

Q.26 Find the inverse z transform of:



Q.27 In a two wattmeter method of measuring power in 3 phase system, one of the wattmeter reads negative, implying

X A. Power flow is in reverse direction

🗙 B. Load is unbalanced

X C. Wattmeter connection is failure

✔ D. Power factor is less than 0.5

Question ID : **59445918630** Status : **Answered** Chosen Option : **4** 

Q.28 The number of turns on the primary of current transformer is usually:

Ans X A. 5 to 10 B. 50 to 100

Ans

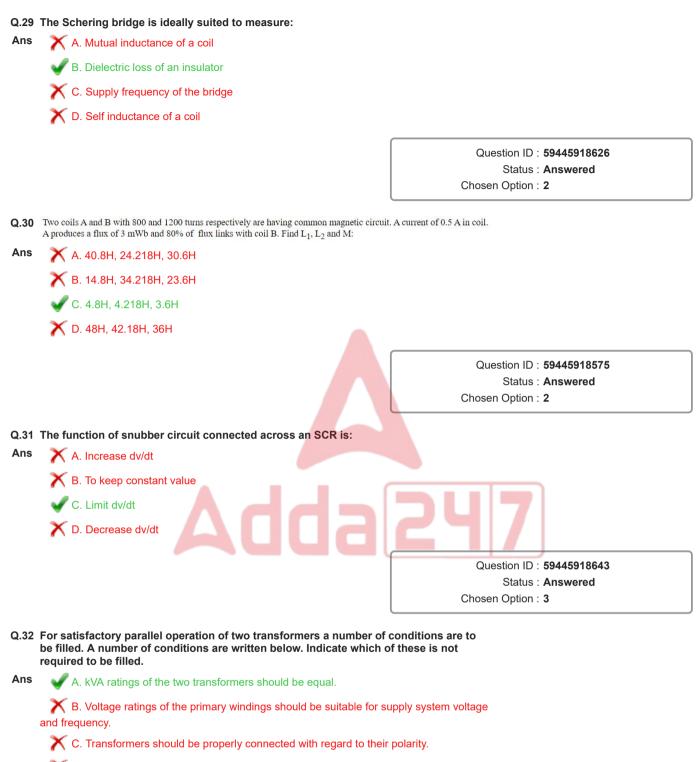
💞 C. 1 to 5

🗙 D. Above 100

Question ID : **59445918633** Status : **Answered** Chosen Option : **3** 





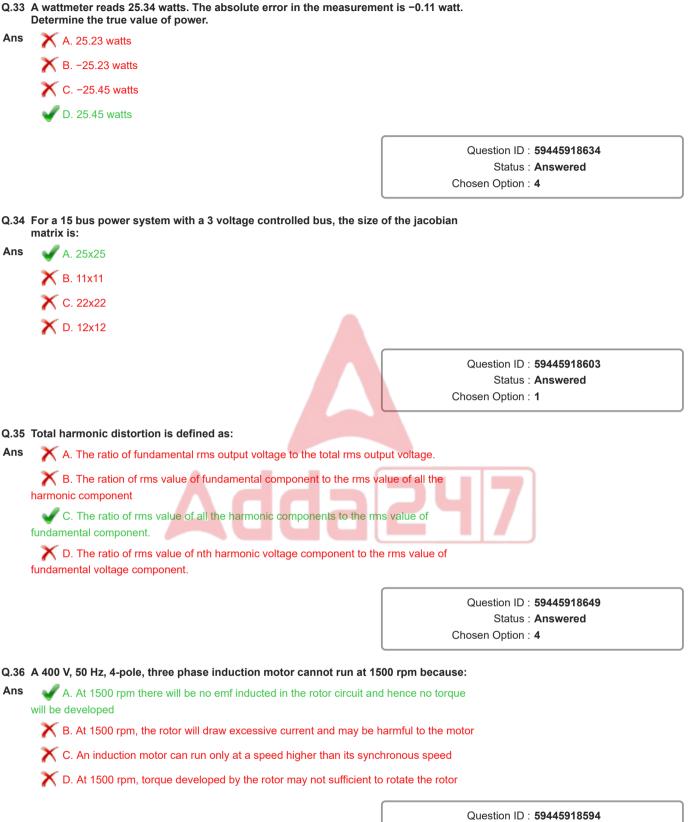


ightarrow D. The percentage impedance of the two transformers should be equal.

Question ID:**59445918588** Status:**Answered** Chosen Option:**1** 



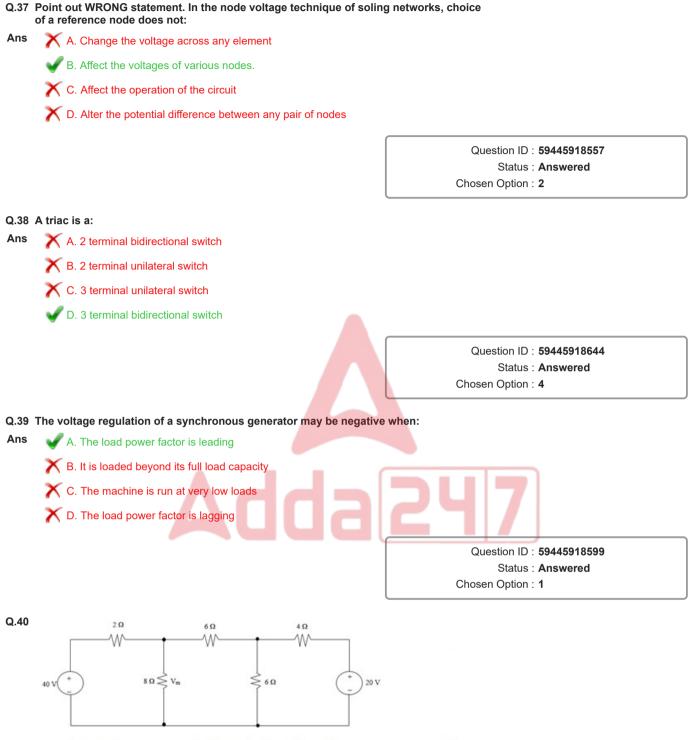




Question ID : 5944591859 Status : Answered Chosen Option : 1







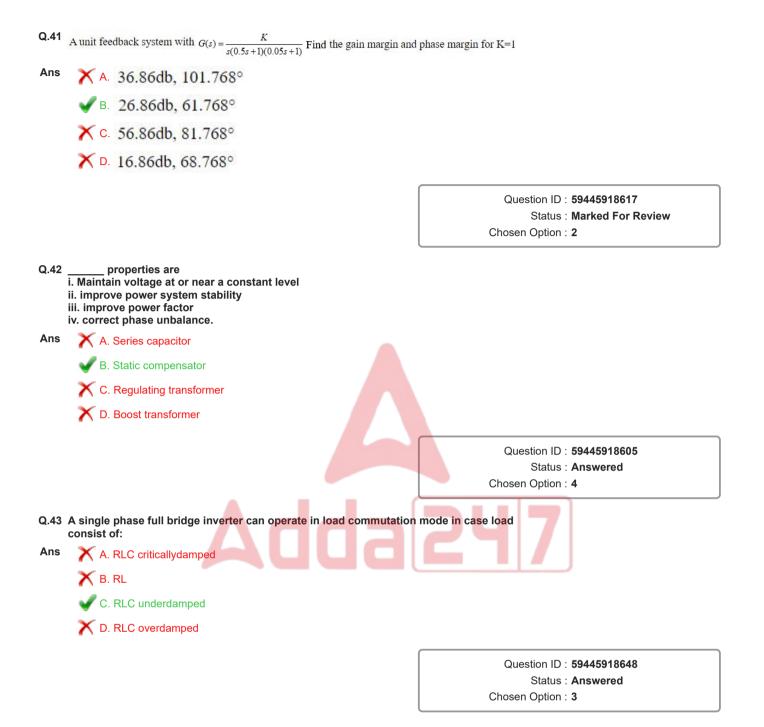
Use the mesh current method , Calculate the voltage across 8  $\Omega$  resistor

Ans X A. 0 V X B. 173 V ✓ C. 28.8 V X D. 14.4 V

Question ID : 59445918556
Status : Answered
Chosen Option : 3







Q.44 Check which system y(n) is non-causal:

Ans  

$$X \land Y(n) = x(n) + \frac{1}{x(n-1)}$$
  
 $V \land Y(t) = x(t-2) + x(2-t)$   
 $X \land Y(n) = x^2(t) + x(t-2)$   
 $X \land Y(t) = \cos[x(n)]$ 

Question ID : **59445918580** Status : **Answered** Chosen Option : **2** 





**Q.45** Consider the system  $T(s) = \frac{Y(s)}{U(s)} = \frac{s+3}{s^2+3s+2}$  Obtain the state space representation in the canonical form. 6

An

Ans  

$$\begin{bmatrix} x_{1}^{i} \\ x_{2}^{i} \end{bmatrix} = \begin{bmatrix} 0 & -1 \\ 2 & 30 \end{bmatrix} \begin{bmatrix} x_{1}(t) \\ x_{2}(t) \end{bmatrix} + \begin{bmatrix} 0 \\ -1 \end{bmatrix} u(t)$$

$$y(t) = \begin{bmatrix} 3 & -11 \end{bmatrix} \begin{bmatrix} x_{1}(t) \\ x_{2}(t) \end{bmatrix}$$

$$y(t) = \begin{bmatrix} 3 & -11 \end{bmatrix} \begin{bmatrix} x_{1}(t) \\ x_{2}(t) \end{bmatrix}$$

$$y(t) = \begin{bmatrix} 13 & 1 \end{bmatrix} \begin{bmatrix} x_{1}(t) \\ x_{2}(t) \end{bmatrix}$$

$$y(t) = \begin{bmatrix} 13 & 1 \end{bmatrix} \begin{bmatrix} x_{1}(t) \\ x_{2}(t) \end{bmatrix}$$

$$(t) = \begin{bmatrix} x_{1}^{i} \\ -2 & -3 \end{bmatrix} \begin{bmatrix} x_{1}(t) \\ x_{2}(t) \end{bmatrix} + \begin{bmatrix} 0 \\ 1 \end{bmatrix} u(t)$$

$$y(t) = \begin{bmatrix} 3 & 1 \end{bmatrix} \begin{bmatrix} x_{1}(t) \\ x_{2}(t) \end{bmatrix}$$

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$$y(t) = \begin{bmatrix} -3 & 1 \end{bmatrix} \begin{bmatrix} x_{1}($$

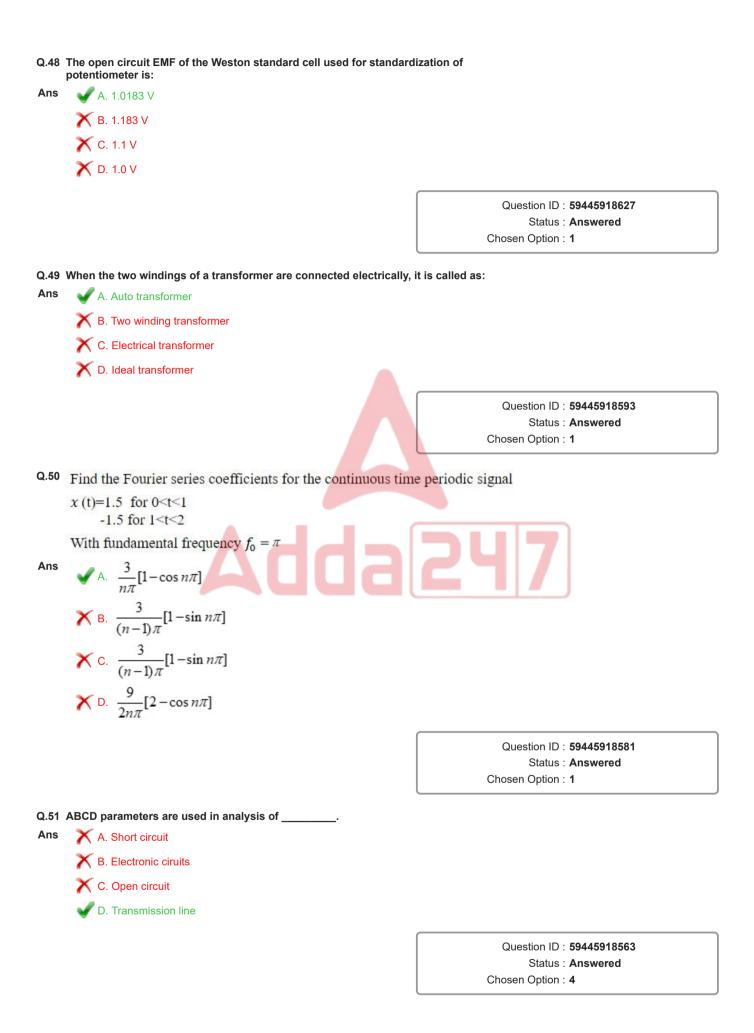
**Q.47** Find the neutral current in the star, neutral ground system from the given symmetrical components.  $I_{R1}=5 \angle 0^{\circ}$ ,  $I_{R2}=2 \angle 90^{\circ}$ ,  $I_{R0}=2 \angle 180^{\circ}$ 

Ans X A. 66 ∠150° Хв. 0 X C. 6∠0° ✓ D. 6 ∠180°

> Question ID : 59445918611 Status : Answered Chosen Option : 4

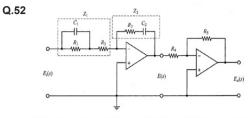




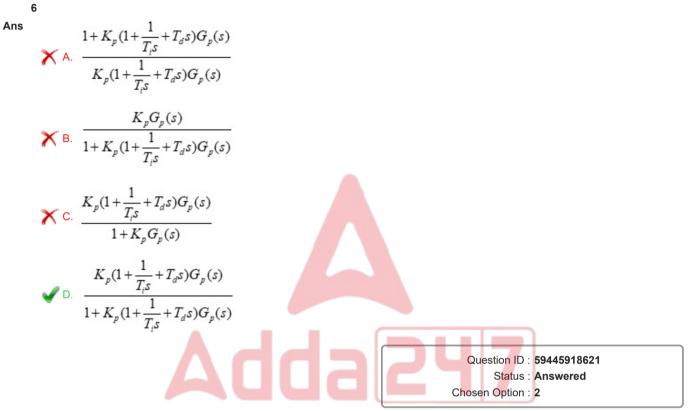








In the above electronics circuits involving two operational amplifiers, A PID controller in that the transfer function involves an integrator and first order lag term. the transfer function of this pid controller is C(s)/R(s):



Q.53 Find the frequency response of an LTI system described by the differential equation.

$$\frac{d^2 y(t)}{dt^2} + 5 \frac{dy(t)}{dt} + 6y(t) = 2x(t)$$
Ans
$$\swarrow A. \quad \frac{22}{(j\omega)^2 + 25(j\omega) + 36}$$

$$\thickapprox B. \quad \frac{12}{(j\omega)^2 + 5(j\omega) + 16}$$

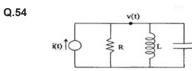
$$\bigstar C. \quad \frac{4}{(j\omega)^2 + 15(j\omega) + 6}$$

$$\bigtriangledown D. \quad \frac{2}{(j\omega)^2 + 5(j\omega) + 6}$$

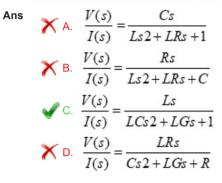
Question ID : **59445918583** Status : **Answered** Chosen Option : **4** 







A parallel RLC network excited by a current source write the transfer function form.



Question ID :	59445918613
Status :	Answered
Chosen Option :	3

Q.55 In a split phase capacitor start induction motor, a time phase difference between currents in the main and auxiliary winding is achieved by:

Ans 🗙 A.

Placing the two windings at an angle of 90° electrical in the stator slots

X B. Applying two phase supply across the two windings

 $\mathbf{X}$  C. Connecting the two windings in series across a single phase supply.

D. Introducing capacitive reactance in the auxiliary winding circuit



Q.56 The torque characteristics of a three phase induction motor is similar to that of

Ans X A. d.c. differentially compounded motor

B. d.c. shunt motor

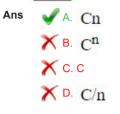
- 🗙 C. d.c. series motor
- 🗙 D. d.c. cumulatively compounded motor

Question ID : **59445918596** Status : **Answered** Chosen Option : **2** 





**Q.57** If x(t) is periodic with period T, fundamental frequency  $\frac{2\pi}{T}$  and the fourier series coefficients of x(at) are FS(x(at)) is \_\_\_\_\_\_ with fundamental frequency  $af_0$ .



Question ID:**59445918579** Status:**Answered** Chosen Option:**1** 

Q.58 If  $a=1 \angle 120^\circ$ , which one is correct:

Ans 
$$(A, a^3=a^4)$$
  
 $(A, a^3=a^4)$   
 $(A, a^4=a^4)$ 

Question ID : **59445918606** Status : **Answered** Chosen Option : **3** 

Chosen Option : 1

Q.59 A chopper, in which current remains positive but voltage may be positive or negative,

X C. Chopper Type A X D. Chopper Type E					
			Qu	59445918653 Answered	

Q.60 A band stop filter is:

Ans X A. A filter significantly attenuates all frequencies above corner frequency and passes below corner frequency

B. A filter significantly attenuates all frequencies below corner frequency and passes above corner frequency

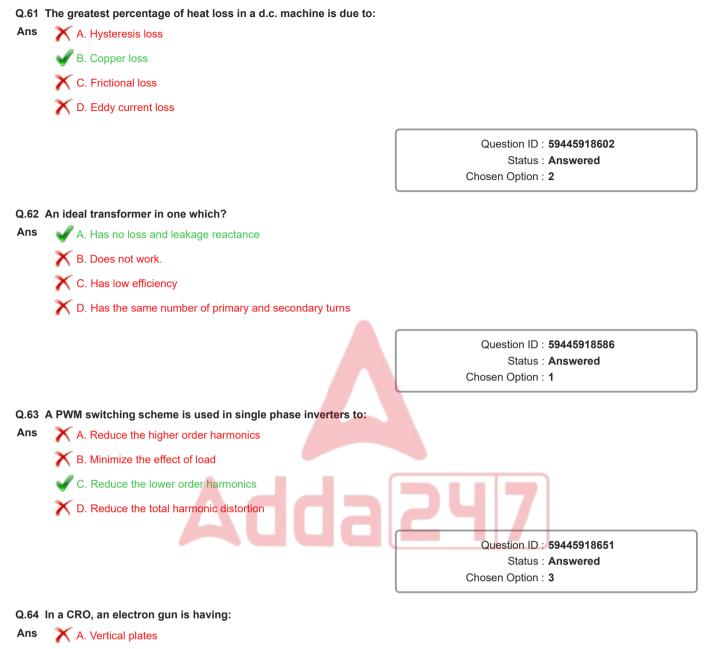
C. Filter reject all frequencies within a specified band and passes all those outside this band

D. Filter allow all frequencies within a specified band and stops all those outside this band

Question ID : 59445918635 Status : Marked For Review Chosen Option : 4







B. Indirectly heated cathode and control grid

X C. Phosphorescent screen

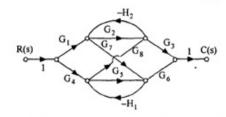
🗙 D. Horizontal plates

Question ID : **59445918628** Status : **Answered** Chosen Option : **4** 





Q.65



Find the C(s)/R(s) for the signal flow graph

Ans

Ans

Ans

× .	C(s)	$G_4G_1G_2(1+H_2G_4)+G_4G_1G_3$			
▲ A.	R(s)	$\frac{G_4G_1G_2(1+H_2G_4)+G_4G_1G_3}{1-G_2H_1+G_3H_1-G_7G_8H_1H_2+G_2G_3H_1H_2}$			
	C(s)	$G_{,G_{,G_{,G_{,G_{,G_{,G_{,G_{,G_{,G_{,$			

B. 
$$\frac{C(3)}{R(s)} = \frac{G_4 G_3 G_6 (1 + H_2 G_2) + G_4 G_8 G_3}{1 + G_2 H_2 + G_3 H_1 - G_7 G_8 H_1 H_2 + G_2 G_3 H_1 H_2}$$

$$\mathbf{X} \text{ c. } \frac{C(s)}{R(s)} = \frac{G_4 G_5 G_6 (1 - H_2 G_2) + G_4 G_8 G_3}{1 + G_2 H_2 + G_3 H_1 + G_7 G_8 H_1 H_2 - G_2 G_5 H_1 H_2}$$

$$\mathbf{X} \text{ p. } \frac{C(s)}{R(s)} = \frac{G_4 G_5 G_6 (1 + H_2) + G_4 G_3}{1 + G_2 G_6 (1 + H_2) + G_4 G_3}$$

No.  $\overline{R(s)} = \frac{1 - G_2 H_2 + G_3 H_1 - G_7 G_8 H_1 + G_2 H_1 H_2}{1 - G_7 G_8 H_1 + G_2 H_1 H_2}$ 

Question ID : **59445918616** Status : **Answered** Chosen Option : **2** 

Q.66 Which of the following is the function of feedback diodes in McMurray inverter?

A. To freewheel the load current

ig X B. To provide the path for the excess of commutation current above the load current.

ig X C. To provide required reverse bias across the outgoing thyristor

ig X D. To provide the return path for the reactive current of load

Question ID : **59445918650** Status : **Answered** Chosen Option : **2** 

Q.67 A freewheeling diode in a phase controlled rectifier:

X A. Is responsible for additional harmonics

X B. Is responsible for additional reactive power

X C. Enables the inverter operation

D. Improves the line power factor

Question ID : **59445918646** Status : **Answered** Chosen Option : **4** 

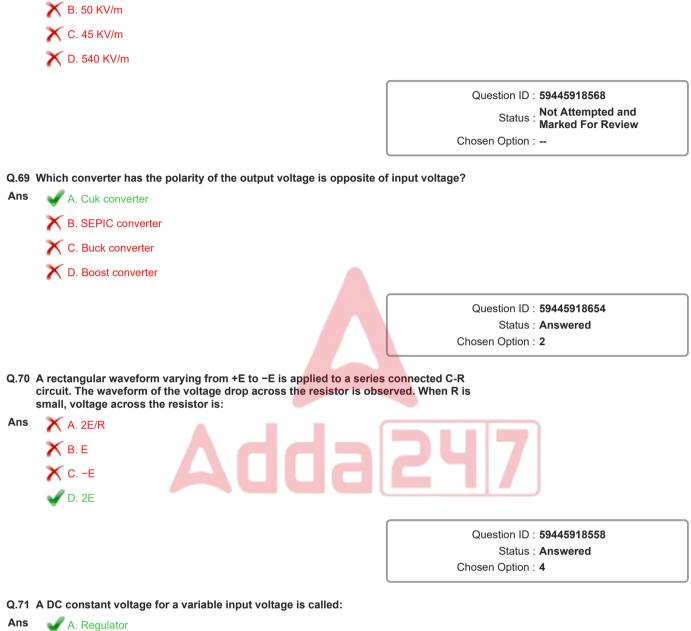


🖌 A. 450 KV/m

Ans



**Q.68** The electrical field intensity at a distance of 20cm from a charge of 2  $\mu$  c in vacuum:

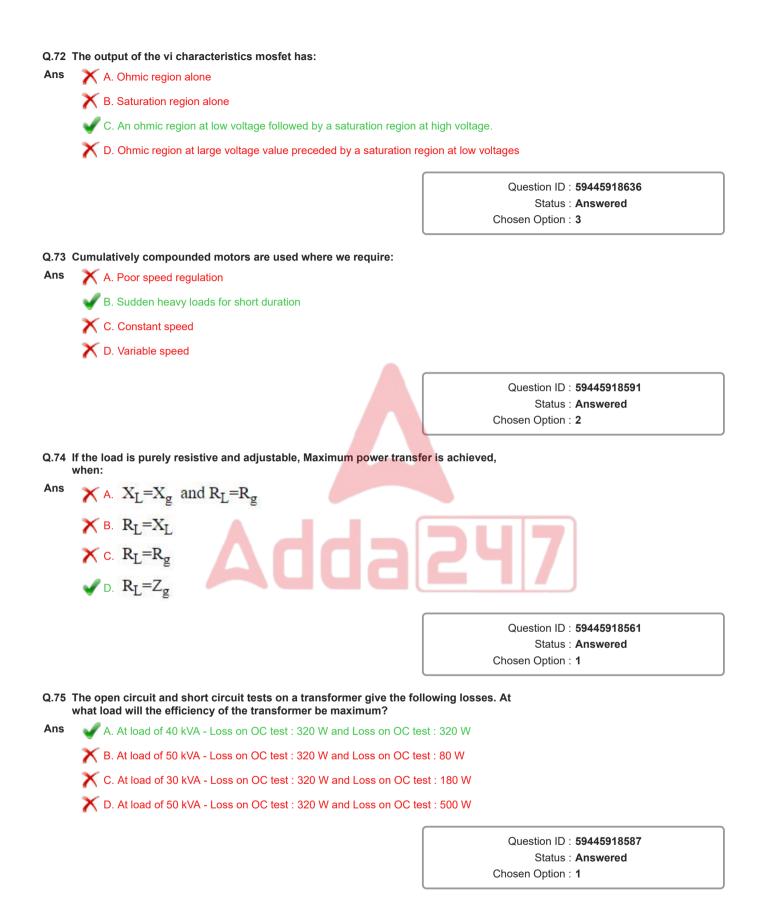


- - 🗙 B. Filter
  - 🗙 C. Rectifier
  - 🗙 D. Inverter

Question ID : **59445918638** Status : **Answered** Chosen Option : **1** 



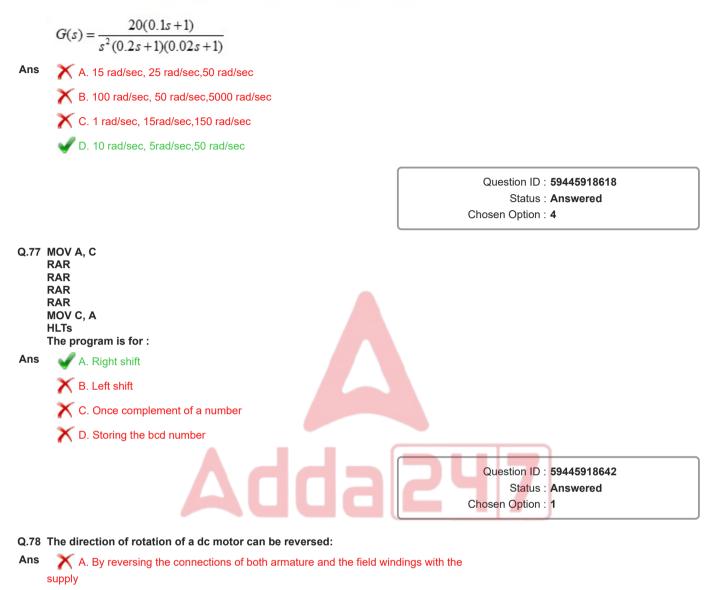








## Q.76 Obtain the corner frequency of the transfer function are:



X B. By reducing the field flux

C. By reversing the connections of either the armature or the field winding connection

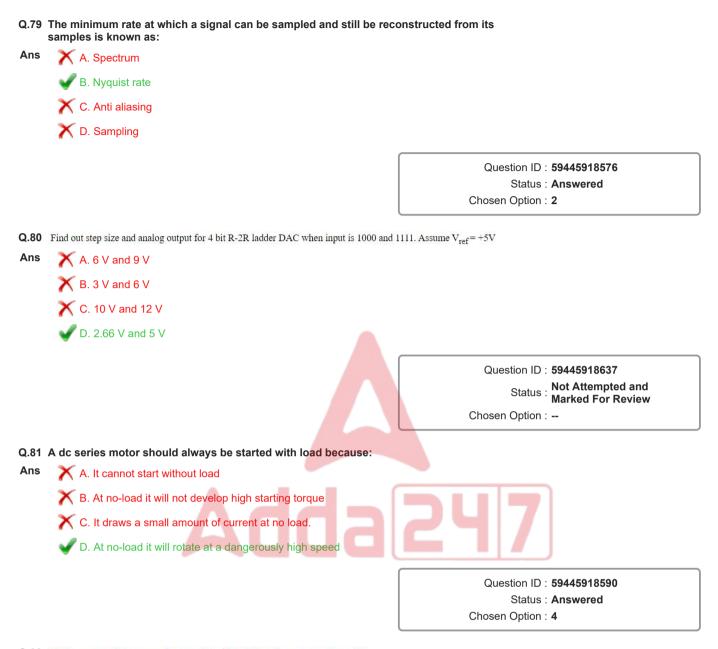
with the supply.

X D. By introducing an extra resistance in the armature circuit.

Question ID : **59445918589** Status : **Answered** Chosen Option : **3** 







Q.82 The root locus of a unity feedback system with

De angle made by asymptotes are:

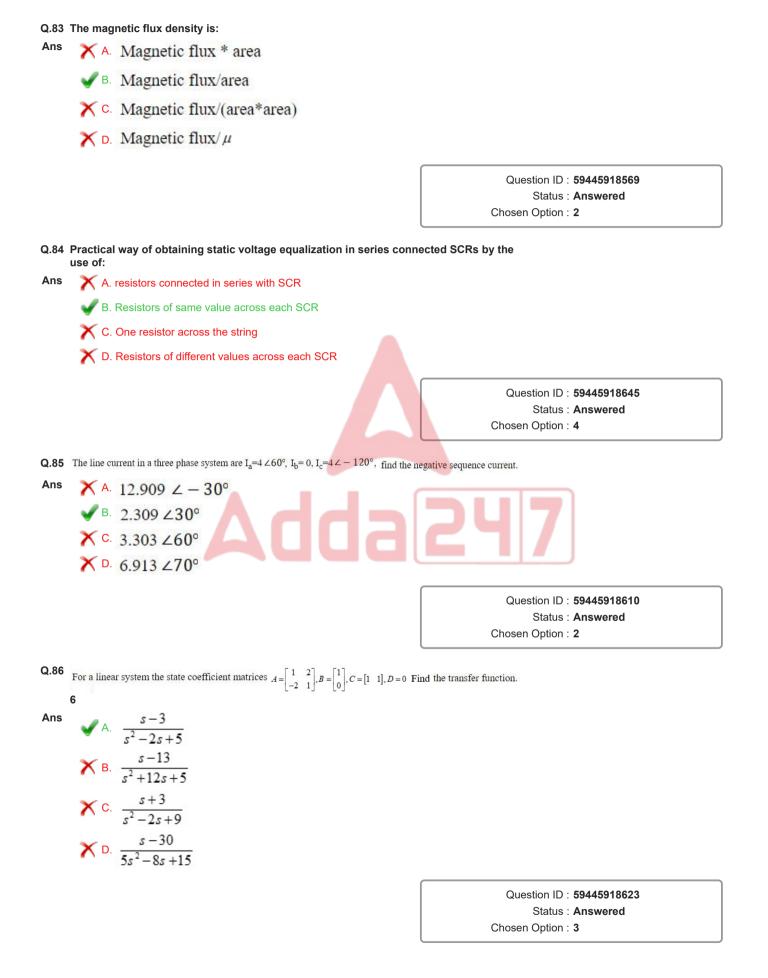
Ans 🗙 A. 20°, 220°

- Ҟ в. 35°, 250°
- 🗙 c. 85°, 120°
- ✓ D. 90°, 270°

Question ID : **59445918619** Status : **Answered** Chosen Option : **2** 











Q.87 The state transition matrix  $\phi(t)$  is:

-

$$\begin{bmatrix} x'_1 \\ x'_2 \end{bmatrix} = \begin{bmatrix} 0 & 1 \\ -2 & -3 \end{bmatrix} \begin{bmatrix} x_1(t) \\ x_2(t) \end{bmatrix}$$

Obtain the inverse of the state transition matrix,  $\phi^{-1}(t)$ 

Ans

$$\begin{array}{c} \checkmark A. \quad e^{-At} = \begin{bmatrix} 2e^{t} & e^{2t} \\ -2e^{t} & -e^{t} \end{bmatrix} \\ \\ \swarrow B. \quad e^{-At} = \begin{bmatrix} e^{t} - e^{2t} & e^{t} - 2e^{2t} \\ -e^{t} + 2e^{2t} & -2e^{t} + e^{2t} \end{bmatrix} \\ \\ \checkmark C. \quad e^{-At} = \begin{bmatrix} e^{t} - e^{2t} & e^{t} - 2e^{2t} \\ -e^{t} + 2e^{2t} & -2e^{t} + e^{2t} \end{bmatrix} \\ \\ \end{matrix}$$

Question ID : 59445918624 Status : Answered Chosen Option : 2

Q.88 A star connected alternator supplies a delta connected load. The impedance of the load branch is (8+j6) ohm/phase. Determine the power factor.



6

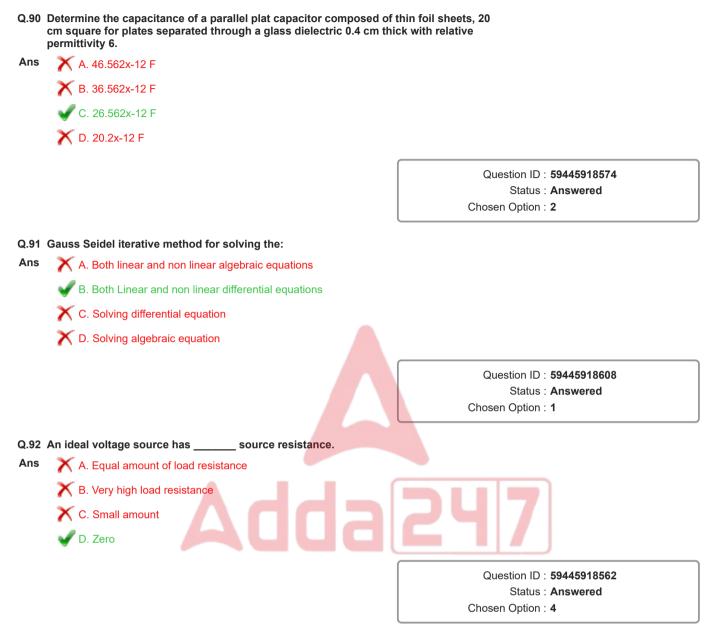
Q.89 By flux control method of speed control of a dc series motor, we can obtain speeds:

- Ans X A. At normal speed
  - ✔ B. Higher than its rated speed
  - C. Above as well as below the rated speed X
  - 🗙 D. Below rated speed

Question ID : 59445918592 Status : Answered Chosen Option : 2







Q.93 Which type of chopper is generally used in high power circuits where load fluctuation is not very large?

- Ans X A. Load commutated chopper
  - 🗙 B. Chopper Type A
  - X C. Current commutated chopper
  - 🖌 D. Voltage commutated chopper

Question ID : **59445918652** Status : **Answered** Chosen Option : **4** 





Q.94	A simple low-pass RC filter having a cutoff frequency of 1 kHZ is connected to a constant ac source of 10 V. Calculate C if R=10 k $\Omega$
Ans	🖌 A. 15.9nF
	X B. 15.9F
	X C. 1nF
	🗙 D. 1F
	Question ID : 59445918560
	Status : Answered
	Chosen Option : 3
Q.95	The creeping is occurs in:
Ans	X A. voltmeter
	X B. wattmeter
	C. Energy meter
	X D. ammeter
	Question ID : <b>59445918631</b> Status : <b>Answered</b>
	Chosen Option : 3
Q.96	Time shifting in Laplace transform If $L\{x(t)\}=x(s)$ , then $L(x(t-t_0))$ is:
Ans	$\bigwedge A_{e} = s(t0-t)x(s+s_0)$
	$\times$ B. $e^{-st0x(s-s_0)-t}$
	$\times c. e^{-s(t-t0)x(s/s_0)}$
	$\checkmark$ D. $e^{-st0x(s)}$
	Question ID : <b>59445918578</b>
	Status : Answered
	Chosen Option : 4
Q.97	Magnetic field intensity around a close path is equal to the current enclosed by the path is:
Ans	X A. Biotsavart law
	B. Amplere's circuital law

🗙 C. Coulomb's Law

🗙 D. Gauss law

Question ID : **59445918571** Status : **Answered** Chosen Option : **2** 



Ans



Q.98 The transfer function of the Armature control DC servo motor is:

$$\begin{array}{l} \bigstar \quad A. \quad \theta s = \frac{sK_{T}E_{a}(s)}{s^{2}[(R_{a} + sL_{a})(Js + B_{0})^{2} + K_{T}K_{b}]} \\ \end{matrix} \\ \bigstar \quad B. \quad \theta s = \frac{K_{T}E_{a}(s)}{[(R_{a} + sL_{a})(Js^{2} + B_{0}) + K_{T}K_{b}]} \\ \checkmark \quad C. \quad \theta s = \frac{K_{T}E_{a}(s)}{s[(R_{a} + sL_{a})(Js + B_{0}) + K_{T}K_{b}]} \\ \end{matrix} \\ \bigstar \quad D. \quad \theta s = \frac{K_{T}E_{a}(s)}{s[(R_{a} + sL_{a})(Bs + J_{0}) + sK_{T}K_{b}]} \\ \end{array}$$

Question ID : 59445918615	
Status : Answered	
Chosen Option : 3	

Q.99 In a purely capacitive circuit the instantaneous power curve is a sinusoidal of

