HPCL Engineer

Previous Year Paper (Instrumentation) 11 Aug 2021



हिन्दुस्तान पेट्रोलियम कॉर्पोरेशन लिमिटेड रजिस्टइं 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	Bhagalpur Online Centre
Test Date	11/08/2021
Test Time	2:00 PM - 4:30 PM
Subject	INSTRUMENTATION ENGINEER



Q.1	Which part of the sentence contains an error? Who's name did you write in your diary that day?	
Ans		
	✔ 2. Who's name	
	🗙 3. that day?	
	🗙 4. in your diary	
		Question ID : 50389010800 Status : Answered Chosen Option : 2
Q.2	Select the most appropriate option to complete the sentence. Let us forget problems for a while and enjoy	
Ans	5 🗙 1. Our, ourself	
	🗙 2. Ours, ourselves	
	🗙 3. Your, yourselves	
	✔ 4. Our, ourselves	
		Question ID : 50389010790 Status : Answered Chosen Option : 4
Q.3	Choose the most appropriate option to complete the sentence. You must always have faith your parents as they know what is best for	r you.
Ans	🔨 🗙 1. Inside	
	🗙 2. at	
	🗙 3. About	
	✔ 4. In	

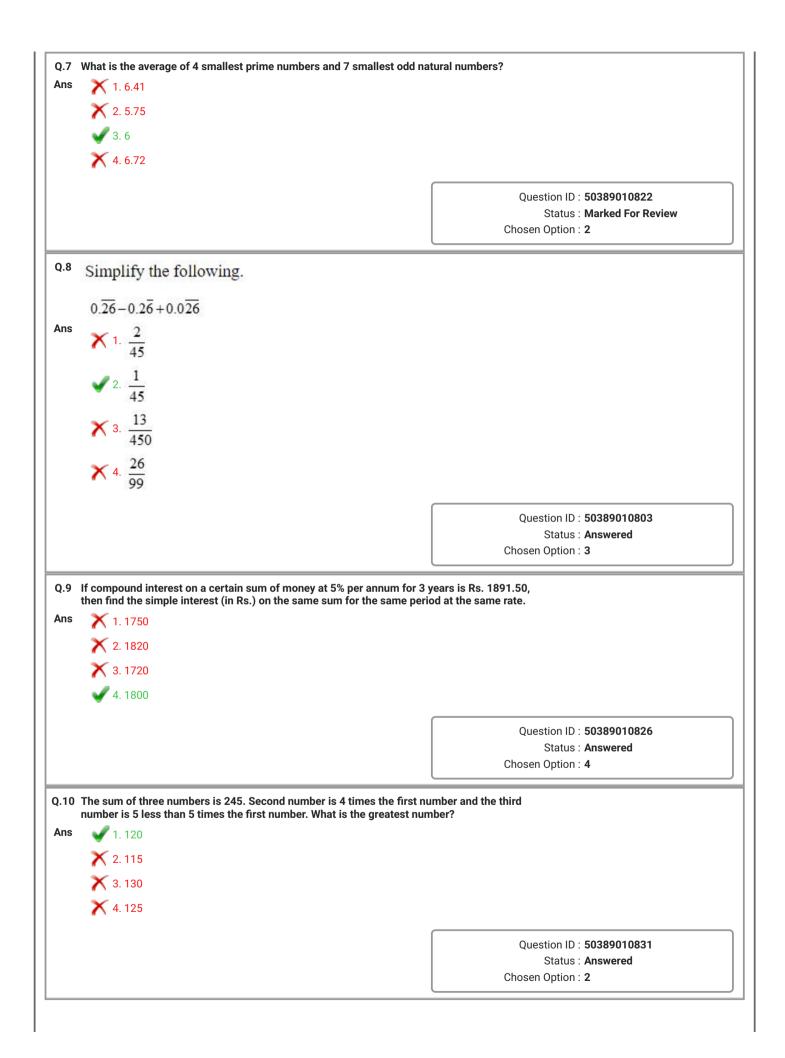
Q.4	Select the most appropriate option to complete the sentence. My teacher announced that fund-raising was voluntary task.	
Ans	1. completely	
	X 2. obligatory	
	🗙 3. mandatory	
	🗙 4. Compulsory	
		Question ID : 50389010791
		Status : Marked For Review
		Chosen Option : 1
Q.5	Select the most appropriate option to complete the sentence. I know all about flying because I to be a pilot before I retired.	
Ans	🗙 1. Was using	
	🗙 2. Had used	
	🗙 3. Use	
	🖌 4. Used	
		Question ID : 50389010789 Status : Answered
		Chosen Option : 4
0.6	Pick the most appropriate antonym of-	
	Brittle	
Ans	X 1. breakable	
	X 2. emotional	
	✓ 3. resilient	
	X 4. frail	
		Question ID : 50389010794
		Status : Answered
		Chosen Option : 1
Q.7	Select the misspelt word.	
Ans	🗙 1. Acknowledge	
	🗙 2. acquaint	
	✔ 3. Acquarium	
	X 4. Acquire	
		Question ID : 50389010797 Status : Answered
		Chosen Option : 2

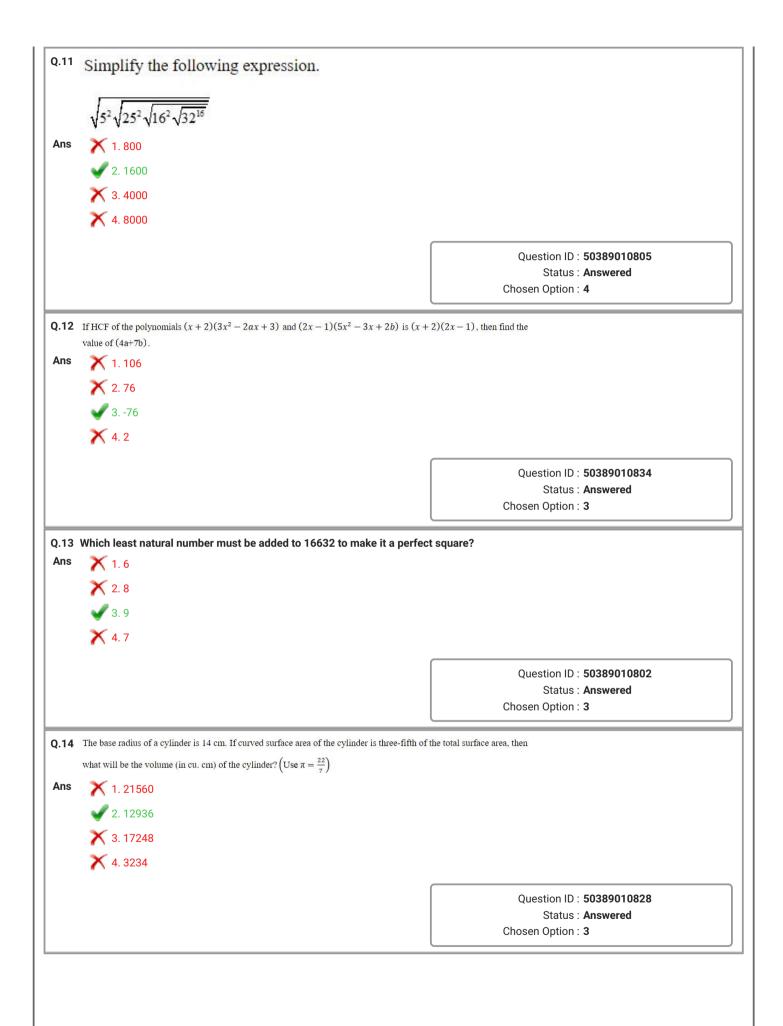
Q.8	Choose the sentence which is grammatically correct.	
Ans	ightarrow 1. bring me that pot soup of hot	
	🗙 2. bring me that hot of pot soup	
	igma 3. bring me hot that pot of soup	
	✔ 4. bring me that pot of hot soup	
		Question ID : 50389010801 Status : Answered
		Chosen Option : 4
	Which conjunction can be used for this sentence? You gave numerous interviews, none of the companies offered y	vou a job.
Ans	X 1. unless	
	🗙 2. So	
	🗙 3. Although	
	✔ 4. Yet	
		Question ID : 50389010787
		Status : Answered
		Chosen Option : 4
	Select the most appropriate option to complete the sentence. Some movies are even than this. 1. Badder 2. Worst	
	Some movies are even than this. X 1. Badder X 2. Worst X 3. Bad	
	Some movies are even than this. X 1. Badder X 2. Worst	
	Some movies are even than this. X 1. Badder X 2. Worst X 3. Bad	Question ID : 50389010788
	Some movies are even than this. X 1. Badder X 2. Worst X 3. Bad	Question ID : 50389010788 Status : Answered
	Some movies are even than this. X 1. Badder X 2. Worst X 3. Bad	Question ID : 50389010788
Ans	Some movies are even than this. 1. Badder 2. Worst 3. Bad 4. Worse Choose the correct preposition.	Question ID : 50389010788 Status : Answered
Ans 2.11	Some movies are even than this. 1. Badder 2. Worst 3. Bad 4. Worse Choose the correct preposition. There is something strange and exciting this man.	Question ID : 50389010788 Status : Answered
Ans Q.11	Some movies are even than this. 1. Badder 2. Worst 3. Bad 4. Worse Choose the correct preposition. There is something strange and exciting this man. 1. Across	Question ID : 50389010788 Status : Answered
Ans Q.11	Some movies are even than this. 1. Badder 2. Worst 3. Bad 4. Worse Choose the correct preposition. There is something strange and exciting this man. 1. Across 2. Into	Question ID : 50389010788 Status : Answered
Ans Q.11	Some movies are even than this. 1. Badder 2. Worst 3. Bad 4. Worse Choose the correct preposition. There is something strange and exciting this man. 1. Across 2. Into 3. Of	Question ID : 50389010788 Status : Answered
Ans Q.11	Some movies are even than this. 1. Badder 2. Worst 3. Bad 4. Worse Choose the correct preposition. There is something strange and exciting this man. 1. Across 2. Into	Question ID : 50389010788 Status : Answered
Ans Q.11	Some movies are even than this. 1. Badder 2. Worst 3. Bad 4. Worse Choose the correct preposition. There is something strange and exciting this man. 1. Across 2. Into 3. Of	Question ID : 50389010788 Status : Answered Chosen Option : 2 Question ID : 50389010785
Ans	Some movies are even than this. 1. Badder 2. Worst 3. Bad 4. Worse Choose the correct preposition. There is something strange and exciting this man. 1. Across 2. Into 3. Of	Question ID : 50389010788 Status : Answered Chosen Option : 2

	Choose the word which can be used in place of the words unde Someone wrote sent her a poem which was written by an unkr	erlined. <u>Iown author</u> .
Ans	🗙 1. Meritorious	
	🗙 2. Androgynous	
	✔ 3. Anonymous	
	🗙 4. Magnanimous	
		Question ID : 50389010795 Status : Answered
		Chosen Option : 3
	Which part of the sentence contains an error? It is only 10 minutes past 10 in my watch.	
Ans	1.10 minutes	
	2. past 10	
	3. It is only	
	 4. in my watch 	
	•	
		Question ID : 50389010799 Status : Answered
		Chosen Option : 3
2.14	Pick the most appropriate synonym of- Endure	
Ans	🗙 1. Resist	
	🗙 2. hide	
	🗙 3. enjoy	
	🖌 4. Suffer	
		Question ID : 50389010793 Status : Answered
2.15	Select the misspelt word.	Status : Answered
	Select the misspelt word.	Status : Answered
	 1. Rebound 2. Fearfull 	Status : Answered
	 1. Rebound 2. Fearfull 3. Shearing 	Status : Answered
	X 1. Rebound	Status : Answered
Q.15 Ans	 1. Rebound 2. Fearfull 3. Shearing 	Status : Answered Chosen Option : 2
	 1. Rebound 2. Fearfull 3. Shearing 	Status : Answered

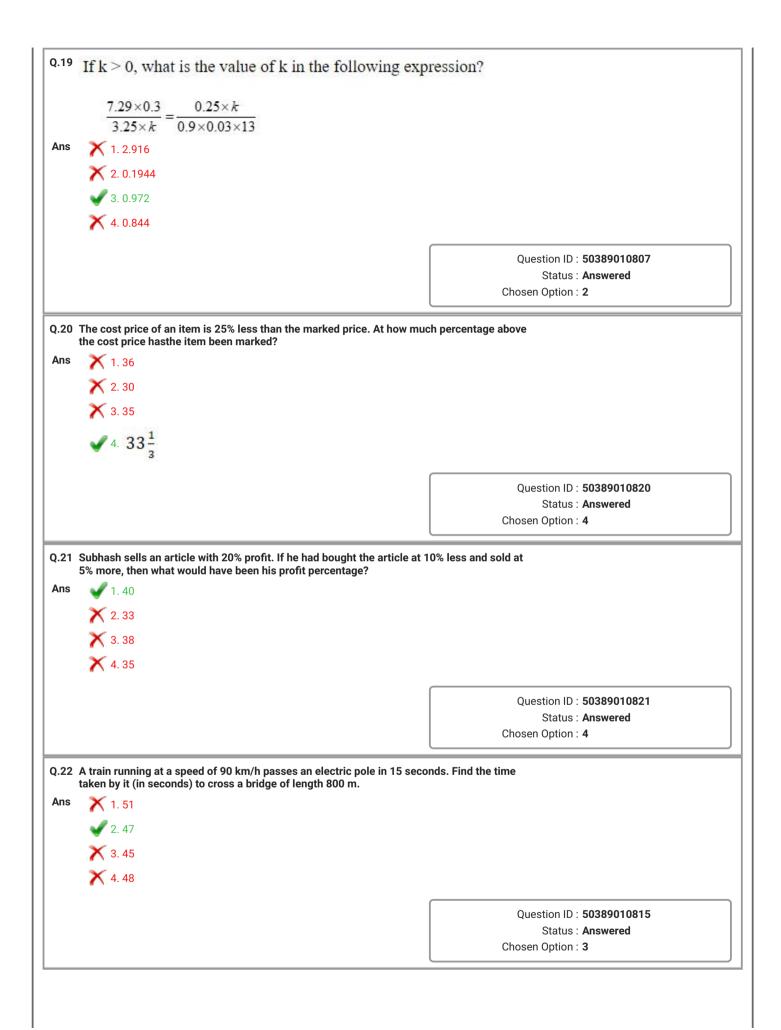
Q.16	Choose the appropriate word to complete the phrase. My performance in my 12th Board exams was a let for my parents	
Ans	🗙 1. Off	
	🗙 2. Go	
	🖌 3. down	
	🗙 4. In	
		Question ID : 50389010798 Status : Answered
		Chosen Option : 3
Q.17	Pick the most appropriate synonym of- Influence	
Ans	1. Exaggerate	
	2. Affect	
	X 3. Neglect	
	X 4. anger	
	T - anger	
		Question ID : 50389010792
		Status : Answered Chosen Option : 2
Sectio	on : Quantitative Aptitude	
Q.1	A pedestrian path has been developed around a circular park. Inner and outer circumferences 352 m respectively. Find the width of the path (in m).	of the path are 330 m and
	$\left(\text{Use }\pi=\frac{22}{7}\right)$	
Ans	× 1.3.3	
	2.3.25	
	✓ 3. 3.5	
	4. 3.6	
		Question ID : 50389010829
		Status : Answered Chosen Option : 3
Q.2	A is 40% more efficient than B and can complete a work in 5 days. In he complete the same work?	ow many days will B
Ans		
	\times 1. $5\frac{1}{2}$	
	V 2. 7	
	🗙 3. 6	
	\times 4. $6\frac{1}{2}$	
		Question ID : 50389010817
		Status : Answered
		Chosen Option : 2

Q.3	35% of 2M exceeds 40% of $\frac{M}{2}$ by 300. Find M.	
Ans	X 1. 450	
	2. 400	
	3 . 600	
	4. 500	
		Question ID : 50389010812 Status : Answered
		Chosen Option : 3
Q.4	Simplify the following expression.	
	$(12.3 \div 0.03) \div 2.05 + 2.05$	
Ans	1.22.05	
	2.1000	
	✓ 3. 202.05	
	X 4. 2002.5	
		Question ID : 50389010806 Status : Answered
		Chosen Option : 3
Q.5	The average score of some students in an examination is 156. The ratio boys to the girls is 15:6. The average score of girls is 25% less than that is the average score of the girls in the class?	
Ans	🗙 1. 125.5	
	X 2. 126.2	
	X 3. 124.8	
	 ✓ 4. 126 	
		Question ID : 50389010823
		Status : Answered
		Chosen Option : 3
Q.6	Two varieties of Rice are available in the market at Rs. 45 per kg and Rs respectively. In what ratio should these be mixed to have the cost Rs. 4	
Ans	✓ 1. 3:4	
	2. 5:6	
	3. 2:3	
	X 4. 4:5	
		Question ID : 50389010809
		Status : Answered
		Chosen Option : 1





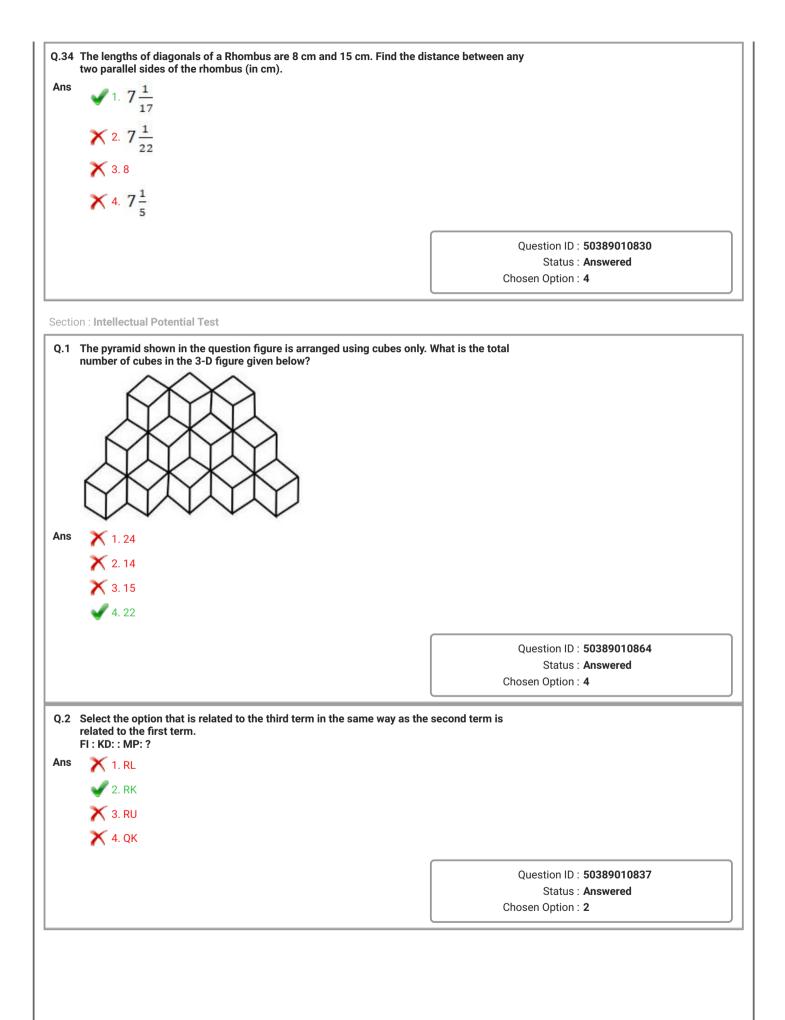
Q.15	If upon increasing the side of a square by 4 cm, its area increases by 112 sq. cm, then what square (in cm)?	t is the side of the original
Ans	✓ 1.12	
	🗙 2. 12.5	
	🗙 3. 11	
	X 4. 13	
		Question ID : 50389010827 Status : Answered
		Chosen Option : 1
Q.16	Hypotenuse of a right angled triangle is 1 cm more than 4 times the sho side is 1 cm less than 4 times the shortest side, then what will be the le hypotenuse (in cm)?	
Ans	🗙 1. 60	
	2. 62	
	V 3. 65	
	X 4. 56	
		Question ID : 50389010833 Status : Answered
		Chosen Option : 3
	A sum of money on compound interest amounts to Rs. 50000 after 2 ye after 4 years. What is the sum (in Rs.)? 1. 32000 2. 35000	ars and to Rs. 78125
Q.17 Ans	after 4 years. What is the sum (in Rs.)?	ars and to Rs. 78125
	after 4 years. What is the sum (in Rs.)? 1. 32000 2. 35000 3. 33500	
	after 4 years. What is the sum (in Rs.)? 1. 32000 2. 35000 3. 33500	ars and to Rs. 78125 Question ID : 50389010825 Status : Answered
	after 4 years. What is the sum (in Rs.)? 1. 32000 2. 35000 3. 33500	Question ID : 50389010825
	after 4 years. What is the sum (in Rs.)? ✓ 1. 32000 ✓ 2. 35000 ✓ 3. 33500 ✓ 4. 31000	Question ID : 50389010825 Status : Answered
Ans	after 4 years. What is the sum (in Rs.)? ✓ 1. 32000 ✓ 2. 35000 ✓ 3. 33500 ✓ 4. 31000	Question ID : 50389010825 Status : Answered
Ans Q.18	after 4 years. What is the sum (in Rs.)? ✓ 1. 32000 ✓ 2. 35000 ✓ 3. 33500 ✓ 4. 31000 Subtract the sum of the reciprocals of	Question ID : 50389010825 Status : Answered
Ans Q.18	after 4 years. What is the sum (in Rs.)? 1. 32000 2. 35000 3. 33500 4. 31000 Subtract the sum of the reciprocals of $1\frac{2}{3}, 1\frac{1}{4}, \frac{3}{8}, 1\frac{1}{5}, 4\frac{2}{7}, 9$ from 5. 1. $-\frac{11}{45}$	Question ID : 50389010825 Status : Answered
Ans Q.18	after 4 years. What is the sum (in Rs.)? 1. 32000 2. 35000 3. 33500 4. 31000 Subtract the sum of the reciprocals of $1\frac{2}{3}$, $1\frac{1}{4}$, $\frac{3}{8}$, $1\frac{1}{5}$, $4\frac{2}{7}$, 9 from 5. 1. $-\frac{11}{45}$ 2. $10\frac{11}{45}$	Question ID : 50389010825 Status : Answered
Ans Q.18	after 4 years. What is the sum (in Rs.)? 1. 32000 2. 35000 3. 33500 4. 31000 Subtract the sum of the reciprocals of $1\frac{2}{3}, 1\frac{1}{4}, \frac{3}{8}, 1\frac{1}{5}, 4\frac{2}{7}, 9$ from 5. 1. $-\frac{11}{45}$	Question ID : 50389010825 Status : Answered
Ans	after 4 years. What is the sum (in Rs.)? 1. 32000 2. 35000 3. 33500 4. 31000 Subtract the sum of the reciprocals of $1\frac{2}{3}$, $1\frac{1}{4}$, $\frac{3}{8}$, $1\frac{1}{5}$, $4\frac{2}{7}$, 9 from 5. 1. $-\frac{11}{45}$ 2. $10\frac{11}{45}$ 3. $-\frac{2}{15}$	Question ID : 50389010825 Status : Answered Chosen Option : 3
Ans Q.18	after 4 years. What is the sum (in Rs.)? 1. 32000 2. 35000 3. 33500 4. 31000 Subtract the sum of the reciprocals of $1\frac{2}{3}$, $1\frac{1}{4}$, $\frac{3}{8}$, $1\frac{1}{5}$, $4\frac{2}{7}$, 9 from 5. 1. $-\frac{11}{45}$ 2. $10\frac{11}{45}$ 3. $-\frac{2}{15}$	Question ID : 50389010825 Status : Answered



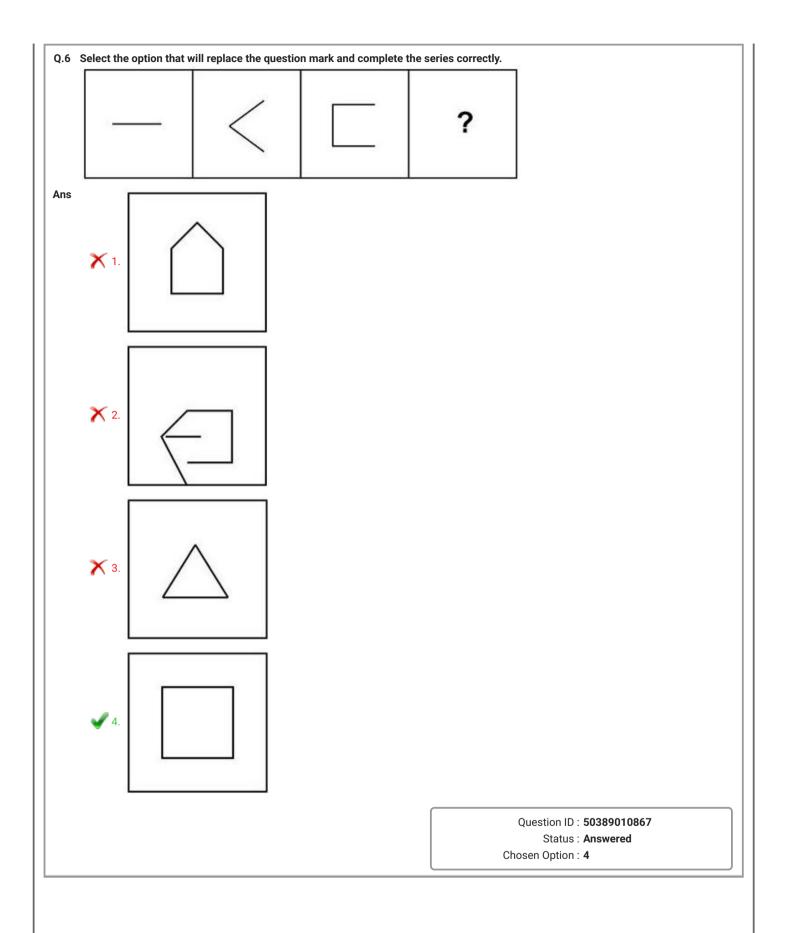
Q.23	There are three numbers. The second number is less than the first number than the third number. If the first number is k % of the third number, then	
Ans	🗙 1. 150	
	\times 2. 170 $\frac{1}{2}$	
	× 3. 55 ⁵ / ₉	
	v 4. 180	
		Question ID : 50389010813
		Status : Answered
		Chosen Option : 3
Q.24	The time taken by a man to row certain distance downstream is three-fo taken by him to row the same distance upstream. If speed of the current the speed of the boat in still water (in km/h).	
Ans	🗙 1. 15	
	2. 12	
	✔ 3. 14	
	X 4. 16	
		Question ID : 50389010814
		Status : Answered
		Chosen Option : 3
Q.25	The digits of a 2-digit number differ by 5. If number obtained by intercha more than two times the original number, then what is the sum of the dig number?	
Ans	✔ 1. 11	
	X 2.9	
	🗙 3. 13	
	X 4. 7	
		Question ID : 50389010832
		Status : Answered
		Chosen Option : 1
Q.26	The average of 24 numbers is 36. The average of 15 of these numbers is another 6 of these numbers is 37. What is the average of the remaining	
Ans	🗙 1. 49.6	
	2. 48	
	 ✓ 3. 49 ✗ 4. 49.3 	
	X 4. 49.3	
		Question ID : 50389010824
		Status : Answered
		Chosen Option : 3

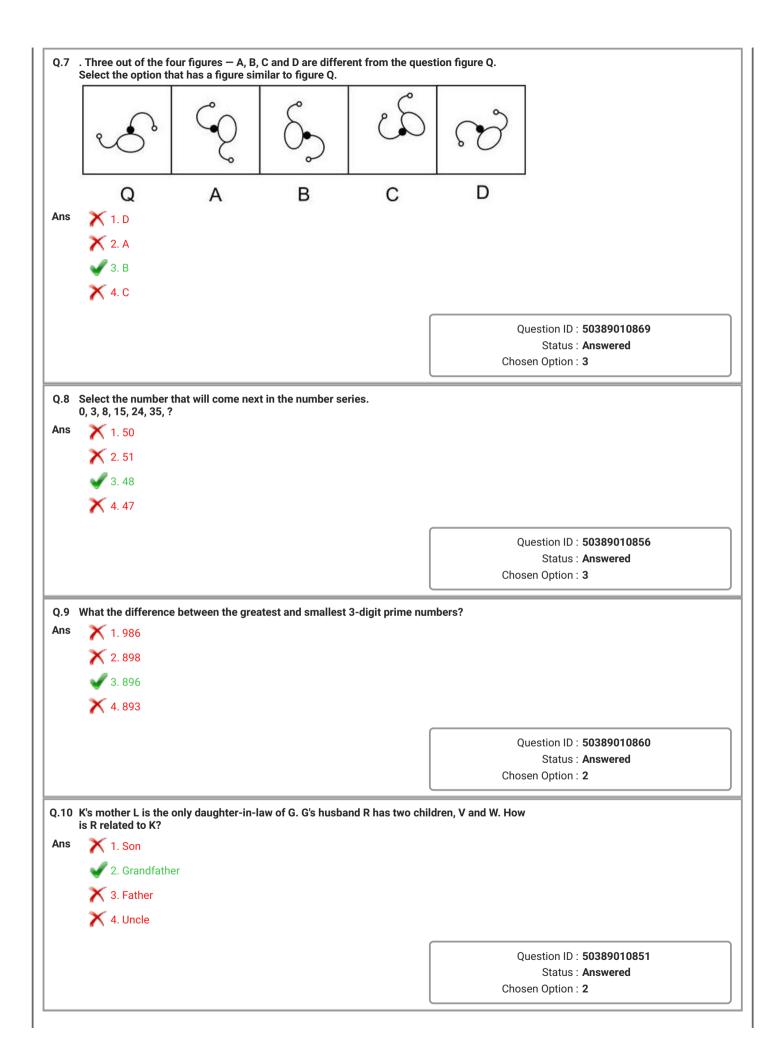
Q.27	A and B can do a work in 12 and 20 days respectively. They work togeth leave the work. Then C took up the work and finished the remaining wo many days can C complete the whole work?	ner for 5 days and rk in 3 days. In how
Ans	✓ 1.9	
	2.10	
	3.8	
	X 4.12	
		Question ID : 50389010819 Status : Answered
		Chosen Option : 1
	How many pieces of length 1.5 m can be cut from a roll of 45 m ribbon?	
Ans	1.28	
	2.30	
	3. 25	
	X 4. 24	
		Question ID : 50389010811
		Status : Answered
		Chosen Option : 2
	 ★ 2.18 ★ 3.45 ★ 4.27 	
		Question ID : 50389010804
		Status : Answered
		Chosen Option : 4
Q.30 Ans	If A:B = 2:3, B:C = 4:5, C:D = 3:4 and A + D = 49, then find B.	
	× 2.12	
	 ✓ 3. 21 ✗ 4. 18 	
	▲ 4.18	
		Question ID : 50389010810
		Question ID : 50389010810
		Status : Answered
		Status : Answered
		Status : Answered

	A can row 42 k downstream and downstream and the river water	nd 35 km up	stream if sp	hours. How peed of the b		vill he take	I as the speed of
ns	💞 1. 5 h 30) m					
	🗙 2. 5 h 35	ōm					
	🗙 3. 5 h 18	3 m					
	🗙 4. 5 h 10						
						(
							Question ID : 50389010816
							Status : Answered Chosen Option : 3
						(·
.32	Two pipes A an opened togeth fill the tank?						n the pipes are tal time required to
ns	🗙 1. 2 h 10) m					
	🗙 2. 1 h 45						
	🗙 3. 2 h 25						
	🖌 4. 2h 15						
	•						
							Question ID : 50389010818
							Status : Answered
							-
.33	Following table months.Who e				5 persons A	, B, C, D an	Status : Answered Chosen Option : 4
.33					5 persons A	, B, C, D an	Status : Answered Chosen Option : 4
.33	months.Who e	arned maxin	num over th	ne 5 years?	- Turner and and	10	Status : Answered Chosen Option : 4
.33	months.Who e Month/	arned maxin	num over th	ne 5 years?	- Turner and and	10	Status : Answered Chosen Option : 4
.33	Month/ Persons	arned maxin March	April	May	June	July	Status : Answered Chosen Option : 4
.33	Months.Who e Month/ Persons A	arned maxin March 24.2	April 25.5	May 25.8	June 26	July 26.5	Status : Answered Chosen Option : 4
.33	Months.Who e Month/ Persons A B	arned maxin March 24.2 23.5	April 25.5 24.2	May 25.8 25.5	June 26 27	July 26.5 26.8	Status : Answered Chosen Option : 4
.33	Months.Who e Month/ Persons A B C	Arned maxin March 24.2 23.5 25.5	April 25.5 24.2 24.8	May 25.8 25.5 26.5	June 26 27 24	July 26.5 26.8 28.2	Status : Answered Chosen Option : 4
	Months.Who e Month/ Persons A B C D E	arned maxin March 24.2 23.5 25.5 24.3	April 25.5 24.2 24.8 24.7	May 25.8 25.5 26.5 25.2	June 26 27 24 27	July 26.5 26.8 28.2 28.8	Status : Answered Chosen Option : 4
	Month/ Persons A B C D E X 1.A	arned maxin March 24.2 23.5 25.5 24.3	April 25.5 24.2 24.8 24.7	May 25.8 25.5 26.5 25.2	June 26 27 24 27	July 26.5 26.8 28.2 28.8	Status : Answered Chosen Option : 4
	Month/ Persons A B C D E X 1. A V 2. E	arned maxin March 24.2 23.5 25.5 24.3 25	April 25.5 24.2 24.8 24.7	May 25.8 25.5 26.5 25.2	June 26 27 24 27	July 26.5 26.8 28.2 28.8	Status : Answered Chosen Option : 4
	Month/ Persons A B C D E X 1. A V 2. E X 3. D and	arned maxin March 24.2 23.5 25.5 24.3 25	April 25.5 24.2 24.8 24.7	May 25.8 25.5 26.5 25.2	June 26 27 24 27	July 26.5 26.8 28.2 28.8	Status : Answered Chosen Option : 4
	Month/ Persons A B C D E X 1. A V 2. E	arned maxin March 24.2 23.5 25.5 24.3 25	April 25.5 24.2 24.8 24.7	May 25.8 25.5 26.5 25.2	June 26 27 24 27	July 26.5 26.8 28.2 28.8	Status : Answered Chosen Option : 4
).33 Ans	Month/ Persons A B C D E X 1. A V 2. E X 3. D and	arned maxin March 24.2 23.5 25.5 24.3 25	April 25.5 24.2 24.8 24.7	May 25.8 25.5 26.5 25.2	June 26 27 24 27	July 26.5 26.8 28.2 28.8	Status : Answered Chosen Option : 4
	Month/ Persons A B C D E X 1. A V 2. E X 3. D and	arned maxin March 24.2 23.5 25.5 24.3 25	April 25.5 24.2 24.8 24.7	May 25.8 25.5 26.5 25.2	June 26 27 24 27	July 26.5 26.8 28.2 28.8	Status : Answered Chosen Option : 4

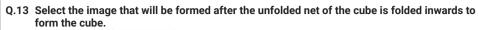


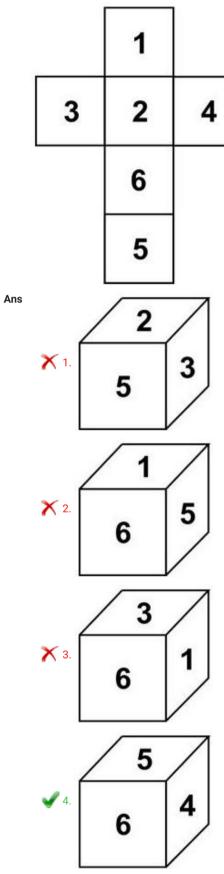
	Deside on and Osmila on the theory Manual is Nordlath, and developments of	
	Pradeep and Sandeep are brothers. Veena is Nandlal's only daughter, Sa Pradeep's wife, Juhi, is Veena's only daughter-in-law. How is Sayli relate	d to Sandeep?
Ans	🗸 1. Sister	
	🗙 2. Daughter	
	X 3. Sister-in-law	
	4. Mother	
		Question ID : 50389010850
		Status : Answered Chosen Option : 2
	Select the option that is related to the third term in the same way as the related to the first term. State Government : Governor : : Union Government : ?	second term is
Ans	X 1. Prime Minister	
	× 2. Chancellor	
	 ✓ 3. President 	
	🗙 4. Speaker	
		Question ID : 50389010839
		Status : Answered
		Chosen Option : 2
	Select the option that is related to the third term in the same way as the related to the first term. 125 : 100 : : 216 : ? 1. 190 2. 180	second term is
	related to the first term. 125 : 100 : : 216 : ? 1. 190 2. 180 3. 252	second term is
	related to the first term. 125 : 100 : : 216 : ? 1. 190 2. 180	second term is
	related to the first term. 125 : 100 : : 216 : ? 1. 190 2. 180 3. 252	Question ID : 50389010840
	related to the first term. 125 : 100 : : 216 : ? 1. 190 2. 180 3. 252	





Q.11	Select the number that will come next in the number series. 27, 40, 55, 72, 91, ?	
Ans		
	2. 112	
	X 3. 111	
	X 4. 102	
	• •	
		Question ID : 50389010857 Status : Answered
		Chosen Option : 2
0.12	Select the number that will come next in the number series.	
Q.12		
Ans	2, 5, 13, 29, ?	
	× 2.39	
	 2. 39 3. 43 4. 49 	
	X 4. 49	
	•	
		Question ID : 50389010854 Status : Answered
		Chosen Option : 4

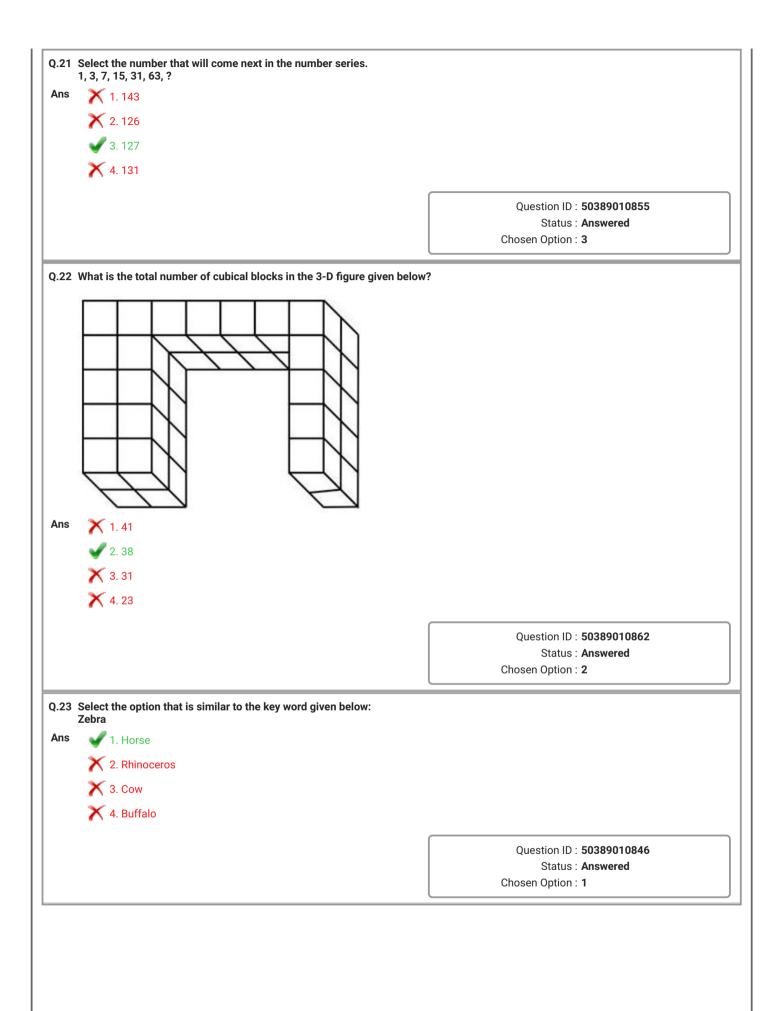




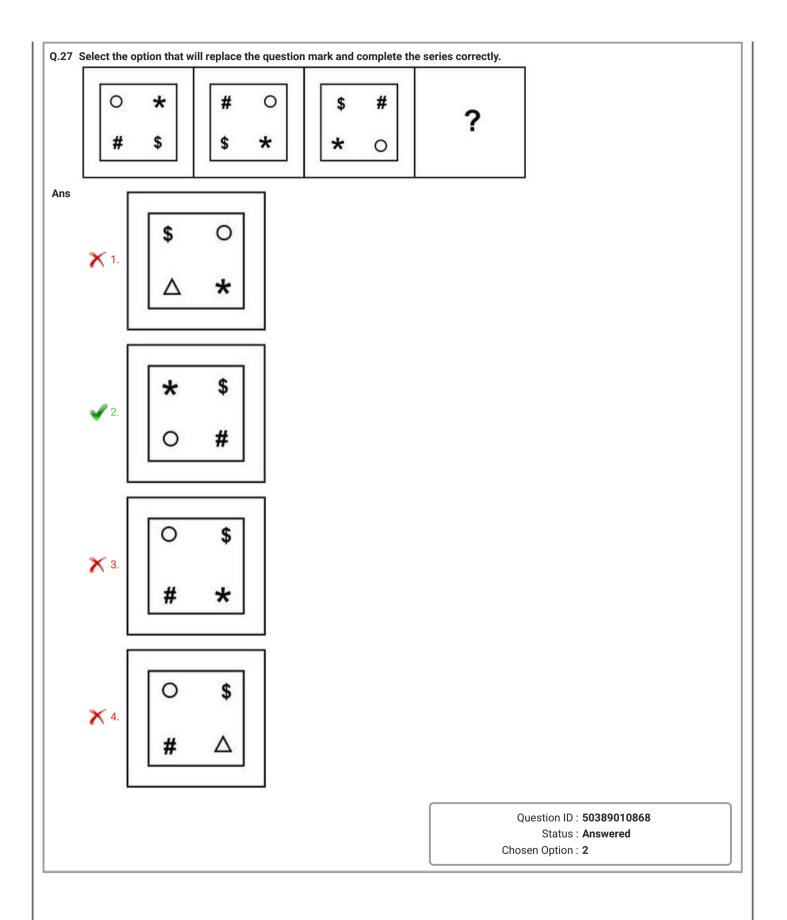
Question ID : **50389010863** Status : **Answered** Chosen Option : **2**

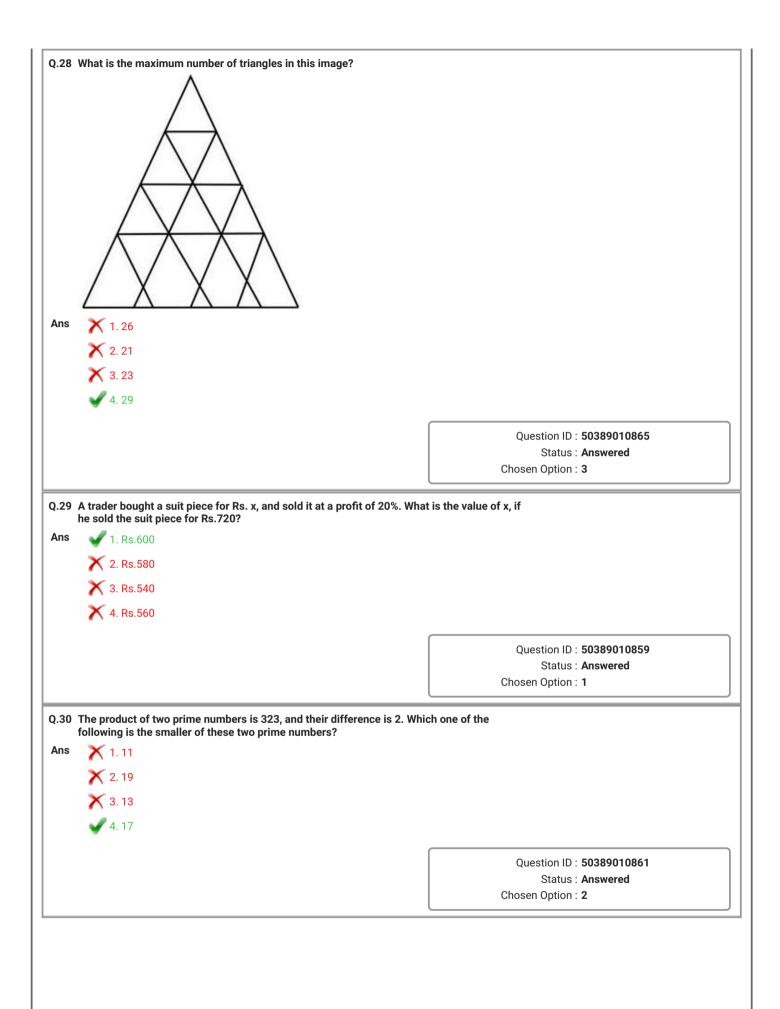
Q.14		
	84 notebooks were to be distributed among a certain number children's day function. However, 9 more students joined the When the notebooks were distributed equally among all the 3 less notebooks than originally planned. How many studen receive the notebooks?	function at the last moment. students, each one of received
Ans	1.21	
	2. 18	
	3. 12	
	X 4. 9	
		Question ID : 50389010858
		Status : Answered
		Chosen Option : 3
Q.15	Select the option that is similar to the key word given below Aeroplane	
Ans	🗙 1. Frog	
	✔ 2. Bird	
	🗙 3. Fish	
	X 4. Snake	
	• •	
		Question ID : 50389010847
		Status : Answered
		Chosen Option : 2
Q.16	Select the option that is related to the third term in the same related to the first term. Spider : Web : : Mouse : ?	Chosen Option : 2
	related to the first term. Spider : Web : : Mouse : ?	Chosen Option : 2
	related to the first term. Spider : Web : : Mouse : ? 1. Cage	Chosen Option : 2
	related to the first term. Spider : Web : : Mouse : ? 1. Cage 2. Coop	Chosen Option : 2
	related to the first term. Spider : Web : : Mouse : ? 1. Cage 2. Coop 3. Den	Chosen Option : 2
Q.16 Ans	related to the first term. Spider : Web : : Mouse : ? 1. Cage 2. Coop	Chosen Option : 2
	related to the first term. Spider : Web : : Mouse : ? 1. Cage 2. Coop 3. Den	Chosen Option : 2 e way as the second term is Question ID : 50389010836
	related to the first term. Spider : Web : : Mouse : ? 1. Cage 2. Coop 3. Den	Chosen Option : 2 e way as the second term is Question ID : 50389010836 Status : Answered
	related to the first term. Spider : Web : : Mouse : ? 1. Cage 2. Coop 3. Den	Chosen Option : 2 e way as the second term is Question ID : 50389010836
Ans	related to the first term. Spider : Web : : Mouse : ? 1. Cage 2. Coop 3. Den	Chosen Option : 2 e way as the second term is Question ID : 50389010836 Status : Answered
Ans	related to the first term. Spider : Web : : Mouse : ? 1. Cage 2. Coop 3. Den 4. Hole Select the option that is similar to the pair given below:	Chosen Option : 2 e way as the second term is Question ID : 50389010836 Status : Answered
Ans	related to the first term. Spider : Web : : Mouse : ? 1. Cage 2. Coop 3. Den 4. Hole Select the option that is similar to the pair given below: Bottle : Water	Chosen Option : 2 e way as the second term is Question ID : 50389010836 Status : Answered
Ans	related to the first term. Spider : Web : : Mouse : ? 1. Cage 2. Coop 3. Den 4. Hole Select the option that is similar to the pair given below: Bottle : Water 1. Glass : Jug	Chosen Option : 2 e way as the second term is Question ID : 50389010836 Status : Answered
Ans	related to the first term. Spider : Web : : Mouse : ? 1. Cage 2. Coop 3. Den 4. Hole Select the option that is similar to the pair given below: Bottle : Water 1. Glass : Jug 2. Milk : Mug	Chosen Option : 2 e way as the second term is Question ID : 50389010836 Status : Answered
Ans	related to the first term. Spider : Web : : Mouse : ? 1. Cage 2. Coop 3. Den 4. Hole Select the option that is similar to the pair given below: Bottle : Water 1. Glass : Jug 2. Milk : Mug 3. Bowl : Soup	e way as the second term is Question ID : 50389010836 Status : Answered Chosen Option : 4
Ans	related to the first term. Spider : Web : : Mouse : ? 1. Cage 2. Coop 3. Den 4. Hole Select the option that is similar to the pair given below: Bottle : Water 1. Glass : Jug 2. Milk : Mug 3. Bowl : Soup	Chosen Option : 2 e way as the second term is Question ID : 50389010836 Status : Answered

2.18	In a code language, horse is called cow; cow is called deer; deer is calle called dog. Then, from which one of the following can milk be definitely	d fox; and fox is obtained?
Ans	🗙 1. Fox	
	🖌 2. Deer	
	🗙 3. Dog	
	X 4. Horse	
		Question ID : 50389010845
		Status : Answered Chosen Option : 2
.19	What is the maximum number of squares in this image?	
Ans	X 1.15	
	X 2. 12	
	V 3. 16	
	X 4. 9	
		Question ID : 50389010866
		Status : Answered Chosen Option : 3
.20	In a code language, DEN is coded as EDO; BAT is coded as CZU; and BU	N is coded as CTO.
ns	Then, how would MOP be coded in that language?	
	X 2. NMQ	
	 3. NNQ 4. LNQ 	
	X 4. LNQ	
		Question ID : 50389010843 Status : Answered
		Chosen Option : 3



	🗙 1. Seed	
	X 2. Leaf	
	3. Plant	
	X 4. Root	
	4. ROOL	
		Question ID : 50389010841
		Status : Answered Chosen Option : 3
		chosen option . 3
.25	In a code language, COAL is coded as 3\$@7; PEEL is coded as 9##7; and PEAK is co LOCK be coded in that language?	oded as 9#@%. Then, how would
ns	★ 1. 7\$#%	
	× 2. 9\$#3	
	✓ 3. 7\$3%	
	× 4. 7#@%	
	<u>∧</u> + / <i>m</i> @/0	
		Question ID : 50389010844
		Status : Answered
		Chosen Option : 3
	Select the option that is related to the third term in the same way a related to the first term. 5:35::9:?	s the second term is
Ans	V 1. 99	
Ans	2. 108	
Ans	× 2. 108 × 3. 90	
Ans	2. 108	
Ans	× 2. 108 × 3. 90	
Ans	× 2. 108 × 3. 90	Question ID : 50389010838 Status : Answered





Q.31	Showing a picture of a boy, Ramya said, "He is my father-in-law's only so nephew." How is Ramya's mother related to the boy in the picture?	n's only sister's only
Ans	🗙 1. Maternal Aunt	
	🗙 2. (Paternal/maternal) Great grandmother	
	🗙 3. Paternal Aunt	
	✔ 4. Maternal Grandmother	
		Question ID : 50389010853
		Status : Answered
		Chosen Option : 3
Q.32	Saritha is Balakrishna's only daughter. Madhavan is Saritha's mother, Pa	rvathy's only son.
Ans	How is Madhavan's daughter, Vedika related to Saritha?	
	2. Daughter	
	X 3. Aunt	
	4. Niece	
	4. Niece	
		Question ID : 50389010852
		Status : Answered
		Chosen Option : 1
Q.33	Select the option that is similar to the pair given below: Entomology : Insects	
Ans	✓ 1. Apiology : Bees	
	2. Geology : Animals	
	3. Bibliology : Religion	
	4. Hydrology : Air	
		Question ID : 50389010848
		Status : Answered Chosen Option : 2
Q.34	Three out of the following four options share a similarity. Select the optifrom the others.	on that is different
Ans	🗙 1. 17, 34, 68, 136	
	2. 8, 16, 64, 256	
	🗙 3. 12, 24, 48, 96	
	4. 15, 30, 60, 120	
		Question ID : 50389010842
		Status : Answered
		Chosen Option : 2

Section : Domain Knowledge

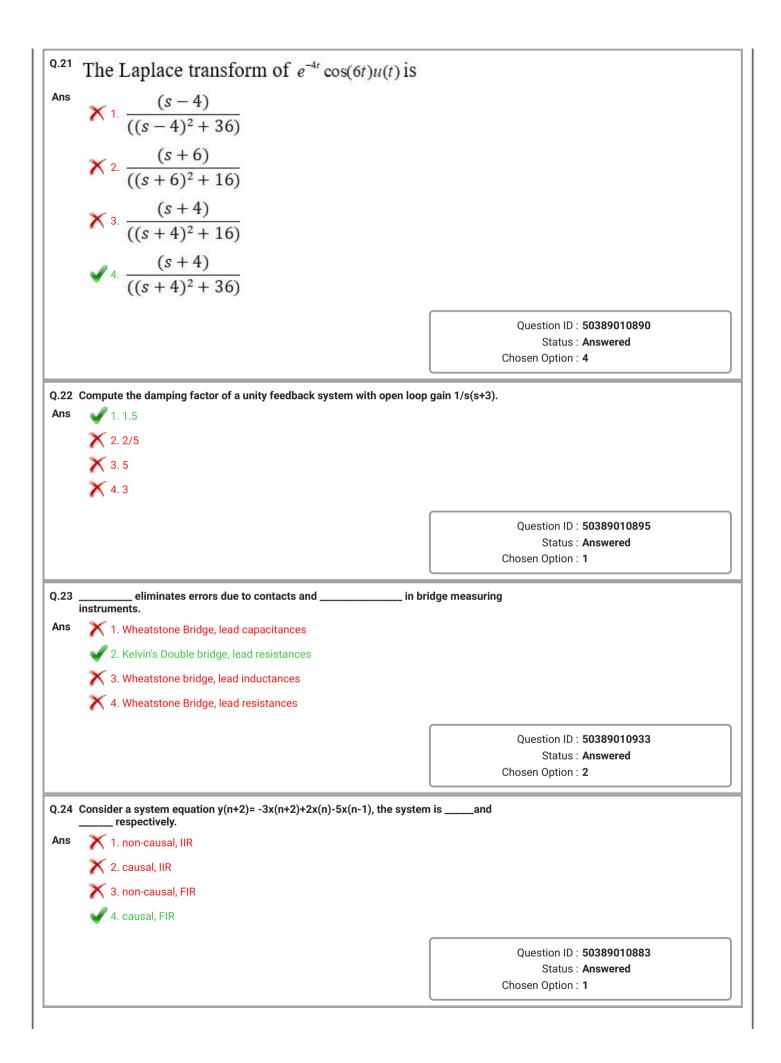
Q.1	Consider a system equation , the system isbut	
Ans	✔ 1. Time variant, non-causal	
	🗙 2. Time invariant, non-causal	
	🗙 3. Time variant, causal	
	🗙 4. Time invariant, causal	
		Question ID : 50389010887 Status : Answered
		Chosen Option : 1
Q.2	A common emitter amplifier is connected with 3-RC network in positi implement an oscillator, what are the phase contributions from the transformation of transform	
Ans	🗙 1. 90°, 90°	
	🗙 2. 360°, 0°	
	✔ 3. 180°, 60°	
	🗙 4. 360°, 60°	
		Question ID : 50389010909 Status : Answered
		Chosen Option : 3
Q.3	An electrical circuit consists of two resistors of 100Ω and 200Ω in second compute the current through 100Ω and voltage drop across 200Ω .	ries with a 30V dc.
Ans	✓ 1. 0.1A, 20V	
	× 2. 0.2A, 10V	
	X 3. 0.2A, 20V	
	•	
	X 4. 0.1A, 10V	
	•	Question ID : 50389010872
	•	Status : Answered
	•	
Q.4	• 4. 0.1A, 10V	Status : Answered
Q.4 Ans	X 4. 0.1A, 10V	Status : Answered
	• 4. 0.1A, 10V	Status : Answered
	4. 0.1A, 10V converts mechanical displacement into electrical signals. X 1. LVDT	Status : Answered
	 4. 0.1A, 10V converts mechanical displacement into electrical signals. X 1. LVDT X 2. anemometer 	Status : Answered
	 4. 0.1A, 10V converts mechanical displacement into electrical signals. X 1. LVDT X 2. anemometer X 3. Thermometer 	Status : Answered Chosen Option : 1
	 4. 0.1A, 10V converts mechanical displacement into electrical signals. X 1. LVDT X 2. anemometer X 3. Thermometer 	Status : Answered Chosen Option : 1 Question ID : 50389010936
	 4. 0.1A, 10V converts mechanical displacement into electrical signals. X 1. LVDT X 2. anemometer X 3. Thermometer 	Status : Answered Chosen Option : 1

Q.5	The primary winding of a current transformer is connected in where the main current and the secondary winding is directly connected across	vith the line carrying S
Ans	🖌 1. series, ammeter	
	🗙 2. parallel, voltmeter	
	🗙 3. parallel, ammeter	
	🗙 4. series, voltmeter	
		Question ID : 50389010932
		Status : Answered
		Chosen Option : 1
Q.6	For a causal LTI system the impulse response is $h(n) = \{1, 2, 1, 3\}$	What will be the
	system difference equation?	
Ans	X 1. y(n)= x(n)-2y(n-1)-y(n-2)-3y(n-3)	
	2. y(n)= x(n)+2x(n-1)+x(n-2)+3x(n-3)	
	X 3. y(n)= x(n)-2x(n-1)-x(n-2)-3x(n-3)	
	X 4. y(n)= x(n)+2y(n-1)+y(n-2)+3y(n-3)	
		Question ID : 50389010882 Status : Answered
		Chosen Option : 2
0.7	Trueness from the reference measures	
Q.7 Ans	1. Precision	
	X 2. Mean	
	3. Accuracy	
	4. Recall	
		Question ID : 50389010927
		Status : Answered Chosen Option : 3
		· · · · · · · · · · · · · · · · · · ·
Q.8	A meter movement with internal resistant $0.1K\Omega$, is required to measure the current sensitivity if the shunt resistance is 11.11Ω .	10mA. Compute
Ans	X 1.10mA	
	🗙 2. 0.01mA	
	✔ 3. 1mA	
	X 4. 0.1mA	
		Question ID : 50389010924 Status : Answered
		Chosen Option : 4

Q.9	Resistors contribute to power in electrical circuits.	
Ans	X 1. Reactive	
	V 2. Active	
	🗙 3. constructive	
	X 4. conductive	
		Question ID : 50389010877 Status : Answered
		Chosen Option : 2
Q.10	A simple PN junction diode is fabricated using semiconductor	and can be used as a
Ans	🗙 1. intrinsic, unidirectional switch	
	✔ 2. extrinsic, unidirectional switch	
	🗙 3. extrinsic, bidirectional switch	
	X 4. intrinsic, bidirectional switch	
		Question ID : 50389010911
		Status : Answered
	A phase modulated wave can be generated from frequency modulator before the modulator and a frequency modulated wave can phase modulator by connecting a before the modulator. 1. Differentiator, integrator	Status : Answered Chosen Option : 1 by connecting a
Q.11 Ans	before the modulator and a frequency modulated wave can phase modulator by connecting a before the modulator. 1. Differentiator, integrator 2. differentiator, high-pass filter	Status : Answered Chosen Option : 1 by connecting a
	before the modulator and a frequency modulated wave can phase modulator by connecting a before the modulator.	Status : Answered Chosen Option : 1 by connecting a
	 before the modulator and a frequency modulated wave can phase modulator by connecting a before the modulator. 1. Differentiator, integrator 2. differentiator, high-pass filter 3. integrator, low-pass filter 	Status : Answered Chosen Option : 1 by connecting a
	 before the modulator and a frequency modulated wave can phase modulator by connecting a before the modulator. 1. Differentiator, integrator 2. differentiator, high-pass filter 3. integrator, low-pass filter 	Status : Answered Chosen Option : 1 by connecting a be generated from Question ID : 50389010950 Status : Answered
	 before the modulator and a frequency modulated wave can phase modulator by connecting a before the modulator. 1. Differentiator, integrator 2. differentiator, high-pass filter 3. integrator, low-pass filter 	Status : Answered Chosen Option : 1 by connecting a be generated from Question ID : 50389010950
Ans	 before the modulator and a frequency modulated wave can phase modulator by connecting a before the modulator. 1. Differentiator, integrator 2. differentiator, high-pass filter 3. integrator, low-pass filter 	Status : Answered Chosen Option : 1 by connecting a be generated from Question ID : 50389010950 Status : Answered Chosen Option : 1
Ans	 before the modulator and a frequency modulated wave can phase modulator by connecting a before the modulator. 1. Differentiator, integrator 2. differentiator, high-pass filter 3. integrator, low-pass filter 4. integrator, differentiator 	Status : Answered Chosen Option : 1 by connecting a be generated from Question ID : 50389010950 Status : Answered Chosen Option : 1
Ans Q.12	before the modulator and a frequency modulated wave can phase modulator by connecting abefore the modulator. 1. Differentiator, integrator 2. differentiator, high-pass filter 3. integrator, low-pass filter 4. integrator, differentiator 1. 10, 1024 2. 2, 2	Status : Answered Chosen Option : 1 by connecting a be generated from Question ID : 50389010950 Status : Answered Chosen Option : 1
Ans Q.12	before the modulator and a frequency modulated wave can phase modulator by connecting abefore the modulator. 1. Differentiator, integrator 2. differentiator, high-pass filter 3. integrator, low-pass filter 4. integrator, differentiator 1. 10, 1024 2. 2, 2	Status : Answered Chosen Option : 1 by connecting a be generated from Question ID : 50389010950 Status : Answered Chosen Option : 1
Ans Q.12	before the modulator and a frequency modulated wave can phase modulator by connecting abefore the modulator. 1. Differentiator, integrator 2. differentiator, high-pass filter 3. integrator, low-pass filter 4. integrator, differentiator	Status : Answered Chosen Option : 1 by connecting a be generated from Question ID : 50389010950 Status : Answered Chosen Option : 1
Ans Q.12	before the modulator and a frequency modulated wave can phase modulator by connecting abefore the modulator. 1. Differentiator, integrator 2. differentiator, high-pass filter 3. integrator, low-pass filter 4. integrator, differentiator 1. 10, 1024 2. 2, 2	Status : Answered Chosen Option : 1 by connecting a be generated from Question ID : 50389010950 Status : Answered Chosen Option : 1
Ans Q.12	before the modulator and a frequency modulated wave can phase modulator by connecting abefore the modulator. 1. Differentiator, integrator 2. differentiator, high-pass filter 3. integrator, low-pass filter 4. integrator, differentiator 1. 10, 1024 2. 2, 2	Status : Answered Chosen Option : 1 by connecting a be generated from Question ID : 50389010950 Status : Answered Chosen Option : 1 Is.

	A combinational logic circuit for traffic control is designedused to implement the designed control circuit without any additional	GATE can only be GATES.
ns	X 1. NOT	
	2. EXOR	
	X 3. AND	
	🖌 4. NAND	
		Question ID : 50389010914
		Status : Answered
		Chosen Option : 4
Q.14	A bipolar junction common emitter transistor is operating in saturation correct statement.	mode, identify the
Ans	1. Vce is zero	
	X 2. Vbe is zero	
	X 3. Ic is zero	
	4. Vcc = Vce	
		Question ID : 50389010902
		Status : Answered
	In a two-watt power meter, for all power factors between 0-0. reading and second wattmeter shows negative reading. X 1. lagging, positive, positive	Status : Answered Chosen Option : 3
	reading and second wattmeter shows negative reading.	Status : Answered Chosen Option : 3
	 reading and second wattmeter shows negative reading. 1. lagging, positive, positive 2. leading, positive, negative 3. leading, negative, negative 	Status : Answered Chosen Option : 3
	 reading and second wattmeter shows negative reading. 1. lagging, positive, positive 2. leading, positive, negative 3. leading, negative, negative 	Status : Answered Chosen Option : 3 , one meter shows Question ID : 50389010929
	 reading and second wattmeter shows negative reading. 1. lagging, positive, positive 2. leading, positive, negative 3. leading, negative, negative 	Status : Answered Chosen Option : 3
Ans	 reading and second wattmeter shows negative reading. 1. lagging, positive, positive 2. leading, positive, negative 3. leading, negative, negative 4. lagging, positive, negative 	Status : Answered Chosen Option : 3 , one meter shows Question ID : 50389010929 Status : Answered Chosen Option : 4
Ans Q.16	 reading and second wattmeter shows negative reading. 1. lagging, positive, positive 2. leading, positive, negative 3. leading, negative, negative 4. lagging, positive, negative 	Status : Answered Chosen Option : 3 , one meter shows Question ID : 50389010929 Status : Answered Chosen Option : 4
Ans Q.16	 reading and second wattmeter shows negative reading. 1. lagging, positive, positive 2. leading, positive, negative 3. leading, negative, negative 4. lagging, positive, negative What is the input voltage and output current in common base configur 1. VBE, IE respectively	Status : Answered Chosen Option : 3 , one meter shows Question ID : 50389010929 Status : Answered Chosen Option : 4
Ans Q.16	 reading and second wattmeter shows negative reading. 1. lagging, positive, positive 2. leading, positive, negative 3. leading, negative, negative 4. lagging, positive, negative 4. lagging, positive, negative 1. VBE, IE respectively 2. VCB, IC respectively 	Status : Answered Chosen Option : 3 , one meter shows Question ID : 50389010929 Status : Answered Chosen Option : 4
Ans Q.16	 reading and second wattmeter shows negative reading. 1. lagging, positive, positive 2. leading, positive, negative 3. leading, negative, negative 4. lagging, positive, negative 4. lagging, positive, negative 1. VBE, IE respectively 2. VCB, IC respectively 3. VCB, IE respectively 3. VCB, IE respectively 	Status : Answered Chosen Option : 3 , one meter shows Question ID : 50389010929 Status : Answered Chosen Option : 4
Ans Q.16	 reading and second wattmeter shows negative reading. 1. lagging, positive, positive 2. leading, positive, negative 3. leading, negative, negative 4. lagging, positive, negative 4. lagging, positive, negative 1. VBE, IE respectively 2. VCB, IC respectively 	Status : Answered Chosen Option : 3 , one meter shows Question ID : 50389010929 Status : Answered Chosen Option : 4
Ans Q.16	 reading and second wattmeter shows negative reading. 1. lagging, positive, positive 2. leading, positive, negative 3. leading, negative, negative 4. lagging, positive, negative 4. lagging, positive, negative 1. VBE, IE respectively 2. VCB, IC respectively 3. VCB, IE respectively 3. VCB, IE respectively 	Status : Answered Chosen Option : 3 , one meter shows Question ID : 50389010929 Status : Answered Chosen Option : 4
Ans	 reading and second wattmeter shows negative reading. 1. lagging, positive, positive 2. leading, positive, negative 3. leading, negative, negative 4. lagging, positive, negative 4. lagging, positive, negative 1. VBE, IE respectively 2. VCB, IC respectively 3. VCB, IE respectively 3. VCB, IE respectively 	Status : Answered Chosen Option : 3 , one meter shows Question ID : 50389010929 Status : Answered Chosen Option : 4

Q.18 Compute the average transmitted power of frequency modulated wave with carrier signal cost(2pi1000t). Ans ✓ 1.1.5 ✓ 2.0.5 ✓ 3.1 ✓ 4.0.25 Question State Chosen Optic Q.19 Consider a sequence x(n)={1,4,1,4}, the FFT of the sequence will be Ans ✓ 1. imaginary and odd ✓ 2. imaginary and even ✓ 3. real and odd ✓ 4. real and even Question	
3. parallel, magnetic 4. transverse, magnetic Question Stat Chosen Optic Q.13 Compute the average transmitted power of frequency modulated wave with carrier signal cost(2pi1000t). Ans 1.1.5 2. 0.5 3.1 4. 0.25 Question Stat Chosen Optic Chosen Optic <	
✓ 4. transverse, magnetic Question Stat Chosen Optic Q.13 Compute the average transmitted power of frequency modulated wave with carrier signal cost(2pi1000t). Ans ✓ 1.1.5 ✓ 2.0.5 ✓ 3.1 ✓ 4. 0.25 Question Question Stat Chosen Optic Not integration and code ✓ 1. imaginary and even ✓ 3. real and odd ✓ 1. real and even Question Question Stat Chosen Optic Stat Q.20 In an optical receiver, the PIN diode has a	
Question Stati Chosen Option Q18 Compute the average transmitted power of frequency modulated wave with carrier signal cost(2pi1000t). Ans 1.1.5 2.0.5 3.1 4.0.25 Question Stati Chosen Option Question Stati	
Q.18 Compute the average transmitted power of frequency modulated wave with carrier signal cost(2pi1000t). Ans 1.1.5 2.0.5 3.1 4.0.25 Question State Chosen Option Question Imaginary and odd Question Imaginary and even Question Imaginary and even <th></th>	
Q.18 Compute the average transmitted power of frequency modulated wave with carrier signal cost(2pi1000t). Ans 1.1.5 2.0.5 3.1 4.0.25 Question State Chosen Option Question State Chosen Option State Question State Qu	
Q.18 Compute the average transmitted power of frequency modulated wave with carrier signal cost(2pi1000). Ans X 1.1.5 ✓ 2.0.5 X 3.1 ✓ 4.0.25 Question Question State Chosen Optic Question State Question State Chosen Optic Q.19 Consider a sequence x(n)={1,4,1,4}, the FFT of the sequence will be) : 50389010939 s : Answered
cost(2pi1000t). Ans 1.1.5 2.0.5 3.1 4.0.25 Question State Chosen Optic Chosen Optic Q.19 Consider a sequence x(n)={1,4,1,4}, the FFT of the sequence will be	
cost(2pi1000t). Ans 1.1.5 2.0.5 3.1 4.0.25 Question State Chosen Optic Chosen Optic Q.19 Consider a sequence x(n)={1,4,1,4}, the FFT of the sequence will be	
 2.0.5 2.0.5 3.1 4.0.25 Question State Chosen Option Q19 Consider a sequence x(n)={1,4,1,4}, the FFT of the sequence will be Ans	
 X 3.1 X 4.0.25 Question State Chosen Option Q.19 Consider a sequence x(n)={1,4,1,4}, the FFT of the sequence will be Ans X 1. imaginary and odd X 2. imaginary and even X 3. real and odd X 4. real and even Question State Chosen Option Question State Chosen Option Question State Chosen Option X 1. inaction State Chosen Option X 2. imaginary and even X 3. real and odd X 4. real and even Question State Chosen Option X 4. real and even 	
Y 4.0.25 Question State Chosen Option State Q.19 Consider a sequence x(n)={1,4,1,4}, the FFT of the sequence will be	
Question Stati Chosen Option Q.19 Consider a sequence x(n)={1,4,1,4}, the FFT of the sequence will be Ans X 1. imaginary and odd 2. imaginary and even X 3. real and odd V 4. real and even Question Stati Chosen Option Question Stati Chosen Option P and N regions, and the diode is biased which helps draw the current carriers away from the intrinsic region. Ans X 1. short, reverse V 2. wide, reverse	
Q.19 Consider a sequence x(n)={1,4,1,4}, the FFT of the sequence will be Ans	
Q.19 Consider a sequence x(n)={1,4,1,4}, the FFT of the sequence will be Ans	
Q.19 Consider a sequence x(n)={1,4,1,4}, the FFT of the sequence will be Ans) : 50389010944 s : Answered
Ans X 1. imaginary and odd X 2. imaginary and even X 3. real and odd ✓ 4. real and even Question Statu Chosen Option Q.20 In an optical receiver, the PIN diode has a intrinsic semiconductor layer separating P and N regions, and the diode is biased which helps draw the current carriers away from the intrinsic region. Ans X 1. short, reverse ✓ 2. wide, reverse	
 Q.20 In an optical receiver, the PIN diode has a intrinsic semiconductor layer separating P and N regions, and the diode is biased which helps draw the current carriers away from the intrinsic region. Ans X 1. short, reverse 2. wide, reverse 	
 Q.20 In an optical receiver, the PIN diode has a intrinsic semiconductor layer separating P and N regions, and the diode is biased which helps draw the current carriers away from the intrinsic region. Ans X 1. short, reverse 2. wide, reverse): 50389010888
 Q.20 In an optical receiver, the PIN diode has a intrinsic semiconductor layer separating P and N regions, and the diode is biased which helps draw the current carriers away from the intrinsic region. Ans 1. short, reverse 2. wide, reverse 	: Answered
 P and N regions, and the diode is biased which helps draw the current carriers away from the intrinsic region. Ans X 1. short, reverse 2. wide, reverse 	i: 1
Ans X 1. short, reverse	
2. wide, reverse	
🔼 3. wide, forward	
4. short, forward	
): 50389010952
Stati Chosen Optic	s : Answered



.25	The distortion in pulse modulation scheme resulting in, i	is corrected by
ns	1. aperture effect, equalizer	
	🗙 2. aliasing, low noise amplifier	
	🗙 3. quadrature null effect, equalizer	
	🗙 4. aperture effect, low noise amplifier	
		Question ID : 50389010946 Status : Answered
		Chosen Option : 2
2.26	cannot be applied to circuits containing	
Ans	1. Superposition theorem, Inductors with initial conditions	
	2. superposition theorem, resistors	
	3. Shockley's equation, transistors	
	X 4. superposition theorem, ideal capacitors	
		Question ID : 50389010873
		Status : Answered
	The closed loop transfer function of a negative feedback system is 0.05. What will be the open loop gain?	Chosen Option : 2
	is 0.05. What will be the open loop gain? 1. 6.66 2. 20 320	Chosen Option : 2
	is 0.05. What will be the open loop gain? 1. 6.66 2. 20	Chosen Option : 2
	is 0.05. What will be the open loop gain? 1. 6.66 2. 20 320	Chosen Option : 2
	is 0.05. What will be the open loop gain? 1. 6.66 2. 20 320	Chosen Option : 2 s 10 and feedback factor Question ID : 50389010892 Status : Answered
Q.27 Ans	is 0.05. What will be the open loop gain? 1. 6.66 2. 20 320	Chosen Option : 2 s 10 and feedback factor Question ID : 50389010892
Ans Q.28	is 0.05. What will be the open loop gain? 1. 6.66 2. 20 320	Chosen Option : 2 s 10 and feedback factor Question ID : 50389010892 Status : Answered Chosen Option : 2
Ans Q.28	is 0.05. What will be the open loop gain? 1. 6.66 2. 20 320 46.66 In optical communication, compute the total energy if the energy of the energy	Chosen Option : 2 s 10 and feedback factor Question ID : 50389010892 Status : Answered Chosen Option : 2
Ans 2.28	is 0.05. What will be the open loop gain? 1. 6.66 2. 20 320 46.66 In optical communication, compute the total energy if the energy of there are 1000 photons.	Chosen Option : 2 s 10 and feedback factor Question ID : 50389010892 Status : Answered Chosen Option : 2
Ans 2.28	is 0.05. What will be the open loop gain? 1. 6.66 2. 20 320 46.66 In optical communication, compute the total energy if the energy of there are 1000 photons. 1. 1	Chosen Option : 2 s 10 and feedback factor Question ID : 50389010892 Status : Answered Chosen Option : 2
Ans 2.28	is 0.05. What will be the open loop gain? 1. 6.66 2. 20 320 46.66 In optical communication, compute the total energy if the energy of there are 1000 photons. 1. 1 2. 1000	Chosen Option : 2 s 10 and feedback factor Question ID : 50389010892 Status : Answered Chosen Option : 2
Ans Q.28	is 0.05. What will be the open loop gain? 1. 6.66 2. 20 320 46.66 In optical communication, compute the total energy if the energy of there are 1000 photons. 1. 1 2. 1000 3. 0.001	Chosen Option : 2 s 10 and feedback factor Question ID : 50389010892 Status : Answered Chosen Option : 2 of each photon is 1J and
Ans Q.28	is 0.05. What will be the open loop gain? 1. 6.66 2. 20 320 46.66 In optical communication, compute the total energy if the energy of there are 1000 photons. 1. 1 2. 1000 3. 0.001	Chosen Option : 2 s 10 and feedback factor Question ID : 50389010892 Status : Answered Chosen Option : 2

Q.29	A system with impulse response is essentially a compensator ar filter.	nd used as a
Ans	🗙 1. Integral, Comb	
	🗙 2. Lead, high-pass	
	🗹 3. Lag, low-pass	
	🗙 4. Proportional, all pass	
		Question ID : 50389010893 Status : Marked For Review
		Chosen Option : 1
Q.30	Compute the peak value of a full wave rectified output if its average value	ue is found to be
Ans	3.18V. 1.1V	
	× 2. 2.5V	
	X 3. 10V	
	✓ 4. 5V	
	4. 5V	
		Question ID : 50389010876
		Status : Answered Chosen Option : 1
	If function $f(X,Y,Z) = \sum m(2,3,4,5)$ is implemented using SOP Boolean function would be	form, the resultant
Ans	Boolean function would be	form, the resultant
Ans	Boolean function would be X 1. Z X 2. Y+Z J 3. X+Y	Question ID : 50389010916 Status : Marked For Review
	Boolean function would be X 1. Z X 2. Y+Z 3. X+Y X 4. (X+Y)Z A counter can be implemented using three flipflops. 1. mod-6 X 2. mod-11	Question ID : 50389010916
Q.32	Boolean function would be	Question ID : 50389010916 Status : Marked For Review
Q.32	Boolean function would be X 1. Z X 2. Y+Z 3. X+Y X 4. (X+Y)Z A counter can be implemented using three flipflops. 1. mod-6 X 2. mod-11	Question ID : 50389010916 Status : Marked For Review Chosen Option : 3 Question ID : 50389010920
Q.32	Boolean function would be X 1. Z X 2. Y+Z 3. X+Y X 4. (X+Y)Z A counter can be implemented using three flipflops. 1. mod-6 X 2. mod-11	Question ID : 50389010916 Status : Marked For Review Chosen Option : 3

Q.33	What is the even part of the signal $x(t)$	$=2+\cos t$?
Ans	$\times 1.2 + \sin t$	
	$\times 2.2\cos t$	
	\times 3. 2 - sin t	
	\checkmark 4. 2+cos t	
	$\sim 1.2 \pm \cos t$	
		Question ID : 50389010880
		Status : Answered Chosen Option : 4
	For an n-channel E-MOSFET Vth = 5V, what is the condition to turn ON	the device?
Ans	X 1. VDS>5V	
	X 2. VGS<5V	
	 ✓ 3. VGS>5V ✓ 3. VGS>5V 	
	X 4. VDS=5V	
		Question ID : 50389010903
		Status : Answered
	Compute the gauge factor if change is resistance is 0.2Ω per Ohm and 0.6 per meter. 1.0.33	Status : Answered Chosen Option : 1
	0.6 per meter.	Status : Answered Chosen Option : 1
	0.6 per meter. ↓ 1. 0.33 ★ 2. 0.6 ★ 3. 0.2	Status : Answered Chosen Option : 1 change in length is
	0.6 per meter. ↓ 1. 0.33 ★ 2. 0.6 ★ 3. 0.2	Status : Answered Chosen Option : 1 change in length is Question ID : 50389010938 Status : Answered
	0.6 per meter. ↓ 1. 0.33 ★ 2. 0.6 ★ 3. 0.2	Status : Answered Chosen Option : 1 change in length is Question ID : 50389010938
Ans	 0.6 per meter. 1. 0.33 2. 0.6 3. 0.2 4. 3 If an LTI system with the transfer function <i>H</i> (<i>z</i>)=1+2 <i>z</i> ⁻¹	Status : Answered Chosen Option : 1 change in length is Question ID : 50389010938 Status : Answered Chosen Option : 1
Ans Q.36	 0.6 per meter. 1. 0.33 2. 0.6 3. 0.2 4. 3 If an LTI system with the transfer function <i>H</i> (<i>z</i>) = 1+2 <i>z</i> input x (n) = {3, 4}, compute the output of the system.	Status : Answered Chosen Option : 1 change in length is Question ID : 50389010938 Status : Answered Chosen Option : 1
Ans	 0.6 per meter. 1. 0.33 2. 0.6 3. 0.2 4. 3 If an LTI system with the transfer function <i>H</i> (<i>z</i>) = 1+2 <i>z</i> ⁻¹ input x (n) = {3, 4}, compute the output of the system. 1. y(n)={4, 11, 6}	Status : Answered Chosen Option : 1 change in length is Question ID : 50389010938 Status : Answered Chosen Option : 1
Ans Q.36	 0.6 per meter. 1. 0.33 2. 0.6 3. 0.2 4. 3 If an LTI system with the transfer function <i>H</i> (<i>z</i>) = 1+2 <i>z</i> ² input x (n) = {3, 4}, compute the output of the system. 1. y(n)={4, 11, 6} 2. y(n)={3, 10, 8} 	Status : Answered Chosen Option : 1 change in length is Question ID : 50389010938 Status : Answered Chosen Option : 1
Ans Q.36	 0.6 per meter. 1. 0.33 2. 0.6 3. 0.2 4. 3 If an LTI system with the transfer function <i>H</i> (<i>z</i>) = 1+2 <i>z</i> input x (n) = {3, 4}, compute the output of the system. 1. y(n)={4, 11, 6} 2. y(n)={3, 10, 8} 3. y(n)={3, 8, 10} 	Status : Answered Chosen Option : 1 change in length is Question ID : 50389010938 Status : Answered Chosen Option : 1
Ans Q.36	 0.6 per meter. 1. 0.33 2. 0.6 3. 0.2 4. 3 If an LTI system with the transfer function <i>H</i> (<i>z</i>) = 1+2 <i>z</i> ² input x (n) = {3, 4}, compute the output of the system. 1. y(n)={4, 11, 6} 2. y(n)={3, 10, 8} 	Status : Answered Chosen Option : 1 change in length is Question ID : 50389010938 Status : Answered Chosen Option : 1
Ans Q.36	 0.6 per meter. 1. 0.33 2. 0.6 3. 0.2 4. 3 If an LTI system with the transfer function <i>H</i> (<i>z</i>) = 1+2 <i>z</i> input x (n) = {3, 4}, compute the output of the system. 1. y(n)={4, 11, 6} 2. y(n)={3, 10, 8} 3. y(n)={3, 8, 10} 	Status : Answered Chosen Option : 1 change in length is Question ID : 50389010938 Status : Answered Chosen Option : 1
Ans Q.36	 0.6 per meter. 1. 0.33 2. 0.6 3. 0.2 4. 3 If an LTI system with the transfer function <i>H</i> (<i>z</i>) = 1+2 <i>z</i> input x (n) = {3, 4}, compute the output of the system. 1. y(n)={4, 11, 6} 2. y(n)={3, 10, 8} 3. y(n)={3, 8, 10} 	Status : Answered Chosen Option : 1 change in length is Question ID : 50389010938 Status : Answered Chosen Option : 1

37	In digital modulation schemes, raised cosine filter is used to reduce _	caused by
S	🗙 1. inter-symbol interference, higher bandwidth	
	🗙 2. intra-symbol interference, timing error	
	🗙 3. intra-symbol interference, higher bandwidth	
	👽 4. inter-symbol interference, timing error	
		Questier ID - 50200010047
		Question ID : 50389010947 Status : Answered
		Chosen Option : 3
.38	In a positive feedback system if the open loop gain is -100 and the fe	edback factor 1/10.
	calculate the closed loop gain.	
ns	× 1.11.11	
	2. 9.09	
	X 311.11	
	49.09	
		Question ID : 50389010891
		Status : Answered
	For a bipolar junction transistor in common emitter mode, IC = maxim voltage) = VE (emitter voltage), the transistor operates in mode. 1. saturation 2. forward blocking	Status : Answered Chosen Option : 1
	voltage) = VE (emitter voltage), the transistor operates in mode. 1. saturation	Status : Answered Chosen Option : 1
	 voltage) = VE (emitter voltage), the transistor operates in mode. 1. saturation 2. forward blocking 3. active 	Status : Answered Chosen Option : 1
	 voltage) = VE (emitter voltage), the transistor operates in mode. 1. saturation 2. forward blocking 3. active 	Status : Answered Chosen Option : 1
	 voltage) = VE (emitter voltage), the transistor operates in mode. 1. saturation 2. forward blocking 3. active 	Status : Answered Chosen Option : 1 num and VC (collector Question ID : 50389010906
Ans	 voltage) = VE (emitter voltage), the transistor operates in mode. 1. saturation 2. forward blocking 3. active 	Status : Answered Chosen Option : 1 num and VC (collector Question ID : 50389010906 Status : Answered Chosen Option : 4
Ans 9.40	 voltage) = VE (emitter voltage), the transistor operates in mode. 1. saturation 2. forward blocking 3. active 4. cut-off 	Status : Answered Chosen Option : 1 num and VC (collector Question ID : 50389010906 Status : Answered Chosen Option : 4
Ans Ω.40	<pre>voltage) = VE (emitter voltage), the transistor operates in mode. 1. saturation 2. forward blocking 3. active 4. cut-off In a JK flipflop, J and K inputs are set to logic 1, the output Q(0) will b </pre>	Status : Answered Chosen Option : 1 num and VC (collector Question ID : 50389010906 Status : Answered Chosen Option : 4
Ans 2.40	<pre>voltage) = VE (emitter voltage), the transistor operates in mode. 1. saturation 2. forward blocking 3. active 4. cut-off In a JK flipflop, J and K inputs are set to logic 1, the output Q(0) will b 1. 0, 0 2. 1, 1</pre>	Status : Answered Chosen Option : 1 num and VC (collector Question ID : 50389010906 Status : Answered Chosen Option : 4
Ans 2.40	<pre>voltage) = VE (emitter voltage), the transistor operates in mode. 1. saturation 2. forward blocking 3. active 4. cut-off In a JK flipflop, J and K inputs are set to logic 1, the output Q(0) will b 1. 0, 0 2. 1, 1 3. undefined, 1</pre>	Status : Answered Chosen Option : 1 num and VC (collector Question ID : 50389010906 Status : Answered Chosen Option : 4
Ans).40	<pre>voltage) = VE (emitter voltage), the transistor operates in mode. 1. saturation 2. forward blocking 3. active 4. cut-off In a JK flipflop, J and K inputs are set to logic 1, the output Q(0) will b 1. 0, 0 2. 1, 1</pre>	Status : Answered Chosen Option : 1 num and VC (collector Question ID : 50389010906 Status : Answered Chosen Option : 4
Ans 2.40	<pre>voltage) = VE (emitter voltage), the transistor operates in mode. 1. saturation 2. forward blocking 3. active 4. cut-off In a JK flipflop, J and K inputs are set to logic 1, the output Q(0) will b 1. 0, 0 2. 1, 1 3. undefined, 1</pre>	Status : Answered Chosen Option : 1 num and VC (collector Question ID : 50389010906 Status : Answered Chosen Option : 4 e when Q(-1) is Question ID : 50389010917
Ans	<pre>voltage) = VE (emitter voltage), the transistor operates in mode. 1. saturation 2. forward blocking 3. active 4. cut-off In a JK flipflop, J and K inputs are set to logic 1, the output Q(0) will b 1. 0, 0 2. 1, 1 3. undefined, 1</pre>	Status : Answered Chosen Option : 1 num and VC (collector Question ID : 50389010906 Status : Answered Chosen Option : 4 e when Q(-1) is

Q.41	Consider a signal $x(t) = 5\cos\left(\frac{2\pi t}{3}\right) + 9\sin(0.5\pi t) + 3\sin\left(\frac{\pi t}{3} - \frac{\pi}{6}\right) + 12$. Identify	the valid statement for x(t).
Ans	\checkmark 1. x(t) is periodic with frequency (1/12) Hz	
	\mathbf{X} 2. x(t) is periodic with period 1.2s	
	X 3. x(t) is not periodic	
	\times 4. x(t) is periodic with frequency 12Hz	
		Question ID : 50389010879 Status : Answered
		Chosen Option : 1
Q.42	In CRT based CRO, which horizontal voltage moves the luminous spot	from left to right in a
	periodic manner?	-
AIIS	1. externally generated ramp voltage	
	 2. internally generated step voltage 	
	X 3. externally generated step voltage	
	4. internally generated ramp voltage	
		Question ID : 50389010925
		Status : Answered
		Chosen Option : 4
Ans	× 1. ±0.3%	
Ans	× 2. ±6% × 3. ±1.5%	
Ans	× 2. ±6%	
Ans	× 2. ±6% × 3. ±1.5%	Question ID : 50389010928
Ans	× 2. ±6% × 3. ±1.5%	Question ID : 50389010928 Status : Answered Chosen Option : 4
2.44	 × 2. ±6% × 3. ±1.5% ✓ 4. ±3% An electrical circuit provides effective impedance of -2jΩ. What will be	Status : Answered Chosen Option : 4
Q.44	 × 2. ±6% × 3. ±1.5% ✓ 4. ±3% 	Status : Answered Chosen Option : 4
Q.44	 × 2. ±6% × 3. ±1.5% ✓ 4. ±3% An electrical circuit provides effective impedance of -2jΩ. What will be between voltage and current in this circuit? - × 1.45°	Status : Answered Chosen Option : 4
Q.44	 × 2. ±6% × 3. ±1.5% ✓ 4. ±3% An electrical circuit provides effective impedance of -2jΩ. What will be between voltage and current in this circuit? - × 1.45° ✓ 290°	Status : Answered Chosen Option : 4
Q.44	 × 2. ±6% × 3. ±1.5% ✓ 4. ±3% An electrical circuit provides effective impedance of -2jΩ. What will be between voltage and current in this circuit? - × 1.45°	Status : Answered Chosen Option : 4
Q.44	 × 2. ±6% × 3. ±1.5% ✓ 4. ±3% An electrical circuit provides effective impedance of -2jΩ. What will be between voltage and current in this circuit? - × 1.45° ✓ 290°	Status : Answered Chosen Option : 4
	 × 2. ±6% × 3. ±1.5% ✓ 4. ±3% An electrical circuit provides effective impedance of -2jΩ. What will be between voltage and current in this circuit? - × 1.45° ✓ 290°	Status : Answered Chosen Option : 4 the phase difference

	1. connector	
	2. Filter	
	X 3. regulator	
	X 4. rectifier	
		Question ID : 50389010907 Status : Answered
		Chosen Option : 4
.46	tells if the transmission rate is less than channel capac that permit error free transmission.	city, then there exists
Ans	X 1. Shannon's, backward error-correcting codes	
	X 2. Nyquist criterion, forward error-correcting codes	
	3. Shannon's theory, forward error-correcting codes	
	X 4. Nyquist criterion, backward error-correcting codes	
		Question ID : 50389010948
		Status : Answered
		Chosen Option : 3
	 1. P and Q both are incorrect 2. P is correct, Q is incorrect 	
	 2. P is correct, Q is incorrect 3. P is incorrect, Q is correct 	
	2. P is correct, Q is incorrect	
	 2. P is correct, Q is incorrect 3. P is incorrect, Q is correct 	Question ID : 50389010943
	 2. P is correct, Q is incorrect 3. P is incorrect, Q is correct 	Status : Answered
	 2. P is correct, Q is incorrect 3. P is incorrect, Q is correct 	
).48 C cl P	 2. P is correct, Q is incorrect 3. P is incorrect, Q is correct 4. P and Q both are correct 	Status : Answered Chosen Option : 4
Q.48 C cl P Q	 2. P is correct, Q is incorrect 3. P is incorrect, Q is correct 4. P and Q both are correct 	Status : Answered Chosen Option : 4
Q.48 C cl P Q Ans	 2. P is correct, Q is incorrect 3. P is incorrect, Q is correct 4. P and Q both are correct 4. P and Q both are correct onsider the following in context of permanent magnet moving coihoice. PMMC is sensitive to small current. PMMC is free from hysteresis and not affected by external fields 1. P is incorrect and Q is correct 	Status : Answered Chosen Option : 4
Q.48 C cl P Q Ans	 2. P is correct, Q is incorrect 3. P is incorrect, Q is correct 4. P and Q both are correct 4. P and Q both are correct onsider the following in context of permanent magnet moving coincide. PMMC is sensitive to small current. PMMC is free from hysteresis and not affected by external fields 1. P is incorrect and Q is correct 2. P and Q both are incorrect 	Status : Answered Chosen Option : 4
).48 C cl P Q Ans	 2. P is correct, Q is incorrect 3. P is incorrect, Q is correct 4. P and Q both are correct 4. P and Q both are correct onsider the following in context of permanent magnet moving coihoice. PMMC is sensitive to small current. PMMC is free from hysteresis and not affected by external fields 1. P is incorrect and Q is correct 	Status : Answered Chosen Option : 4
).48 C cl P Q Ans	 2. P is correct, Q is incorrect 3. P is incorrect, Q is correct 4. P and Q both are correct 4. P and Q both are correct onsider the following in context of permanent magnet moving coincide. PMMC is sensitive to small current. PMMC is free from hysteresis and not affected by external fields 1. P is incorrect and Q is correct 2. P and Q both are incorrect 	Status : Answered Chosen Option : 4
).48 C cl P Q Ans	 2. P is correct, Q is incorrect 3. P is incorrect, Q is correct 4. P and Q both are correct onsider the following in context of permanent magnet moving coihoice. PMMC is sensitive to small current. PMMC is free from hysteresis and not affected by external fields 1. P is incorrect and Q is correct 2. P and Q both are incorrect 3. P and Q both are correct 	Status : Answered Chosen Option : 4
Q.48 C cl P Q Ans	 2. P is correct, Q is incorrect 3. P is incorrect, Q is correct 4. P and Q both are correct onsider the following in context of permanent magnet moving coihoice. PMMC is sensitive to small current. PMMC is free from hysteresis and not affected by external fields 1. P is incorrect and Q is correct 2. P and Q both are incorrect 3. P and Q both are correct 	Status : Answered Chosen Option : 4

Q.49 Compute the transfer function if the impulse response of an LTI systems is $h(n) = 0.5^n u(n)$.

Ans

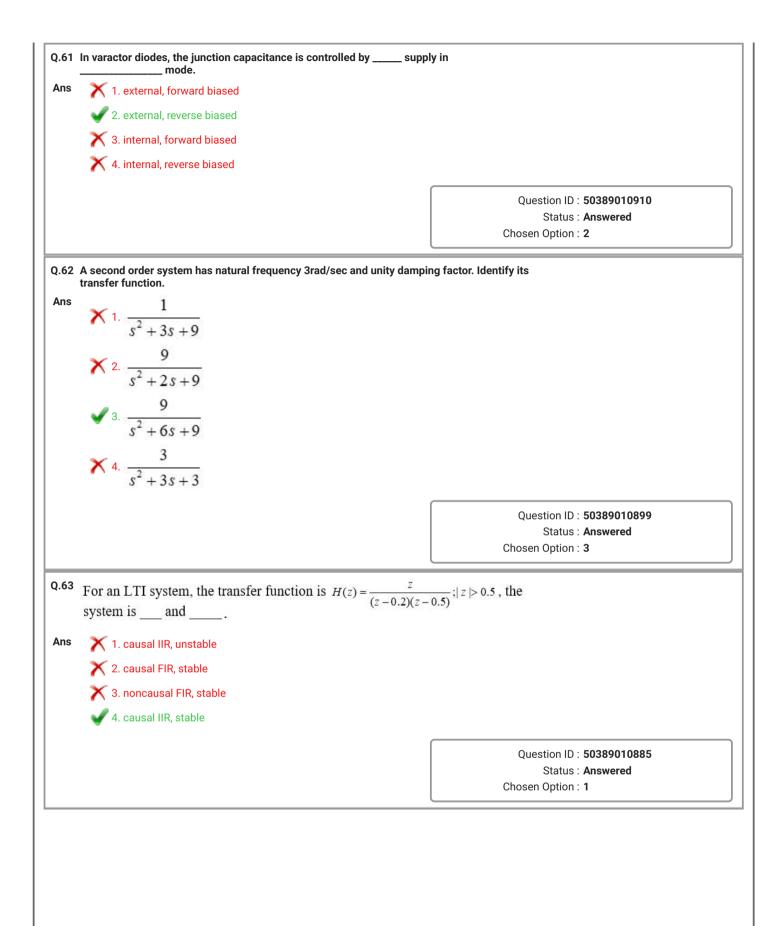
$$X : H(z) = \frac{z}{(z - 0.5)}; |z| < 0.5$$

$$X : H(z) = \frac{1}{(z - 0.5)}; |z| < 0.5$$

$$X : H(z) = \frac{1}{(z - 0.5)}; |z| < 0.5$$
Question D : 5038001084
Status : Answered
Chosen Option : 1
Question D : 5038001084
Status : Answered
Chosen Option : 1
Question D : 5038001084
Status : Answered
Chosen Option : 1
Question D : 50380010894
Status : Answered
Chosen Option : 1
Question D : 50380010894
Status : Answered
Chosen Option : 1
Question D : 50380010894
Status : Answered
Chosen Option : 3
Question D : 50380010894
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Question D : 50380010894
Status : Answered
Chosen Option : 3
Question D : 50380010841
Status : Answered
Chosen Option : 3
Question D : 50380010841
Status : Answered
Chosen Option : 3
Question D : 50380010875
Status : Answered
Chosen Option : 4

Q.53	Calculate the system bandwidth capacity in a FDM system having BW of 3MHz.	200 users with individual
Ans	🗙 1. 1200MHz	
	X 2. 300MHz	
	3 . 600MHz	
	X 4. 66.66MHz	
		Question ID : 50389010949 Status : Answered
		Chosen Option : 3
Q.54	under influence of external force produce	
Ans	X 1. anemometers, vibrations	
	X 2. piezoelectric crystals, magnetomotive force	
	🗙 3. thermistors, current	
	4. piezoelectric crystals, electromotive force	
		Question ID : 50389010937 Status : Answered
		Chosen Option : 1
Q.55	The O in a MOSFET stands for layer which provides	to the device.
Ans	👽 1. Oxide, high input impedance	
	leph 2. Other, higher base transportation factor	
	🗙 3. Oxythermal, thermal statibility	
	🗙 4. Oxide, low input impedance	
		Ouestion ID · 50389010905
		Question ID : 50389010905 Status : Answered
Q.56	Electrodynamometer is a instrument where magnetic fiel	Status : Answered Chosen Option : 1
Q.56 Ans	Electrodynamometer is a instrument where magnetic fiel provided by two	Status : Answered Chosen Option : 1
	provided by two X 1. transfer-type, permanent magnets	Status : Answered Chosen Option : 1
	 provided by two 1. transfer-type, permanent magnets 2. constant-type, permanent magnets 	Status : Answered Chosen Option : 1
	provided by two X 1. transfer-type, permanent magnets	Status : Answered Chosen Option : 1
	 provided by two 1. transfer-type, permanent magnets 2. constant-type, permanent magnets 3. transfer-type, fixed coils 	Status : Answered Chosen Option : 1

	A control system transfer function is $H(s)=1/s^3$. Express its impuls	se response in terms
	of unit step signal	
Ans	× 1. $u(t) \otimes u(t)$; ⊗ denotes convolution	
	$X \ge u(t) \otimes u(t) \otimes u(t) \otimes u(t); \otimes denotes con$	volution
	\times 3. $u(t) \times u(t) \times u(t); \times$ denotes multiplicati	on
	\checkmark 4. $u(t) \otimes u(t) \otimes u(t); \otimes u(t); \otimes denotes convolution$	on
		Question ID : 50389010896 Status : Answered
		Chosen Option : 4
Q.58	The number of control lines in a multiplexer is 5, identify the MUX.	
Ans	🗙 1. 16:1	
	2. 5:1	
	3 . 32:1	
	X 4. 64:1	
		Question ID : 50389010915
		Status : Answered
		Chosen Option : 3
Ans	 1. 10dBm 240dBm 3. 30dBm 4. 40dBm 	
		Question ID : 50389010954 Status : Answered
Q.60	Flow can be measured by	Status : Answered
Q.60 Ans	Flow can be measured by	Status : Answered
		Status : Answered
	 1. thermistor 2. anemometer 3. strain gauge 	Status : Answered
	 1. thermistor 2. anemometer 	Status : Answered
	 1. thermistor 2. anemometer 3. strain gauge 	Status : Answered Chosen Option : 1
	 1. thermistor 2. anemometer 3. strain gauge 	Status : Answered



	Following instruction is executed in 8085, LDB 4000H	
Ans	Identify the correct statement. 1. 4000H is copied to register B	
	X 2. data at address 4002H is copied to register B	
	 X 3. 4002H is copied to register B 	
	 4002H is copied to register B 4. data at address 4000H is copied to register B 	
		Question ID : 50389010923
		Status : Answered Chosen Option : 4
Q.65	TRAP is a interrupt which has the interrupts.	priority among all other
Ans	X 1. maskable, lowest	
	2. non-maskable, highest	
	X 3. maskable, second lowest	
	X 4. non-maskable, second highest	
		Question ID : 50389010922 Status : Answered
		Chosen Option : 2
Q.66	The transfer function of a system is 1/(s+1), compute stewith unit step input.	eady state final value when excited
Ans	🗙 1. infinity	
	×	
	X 2.0	
	 ✓ 2.0 ✓ 3.1 	
	3.1	
	3.1	Question ID : 50389010898 Status : Answered
	3.1	
Q.67	3.1	Status : Answered Chosen Option : 2
	 3. 1 4. 5 In an electrical circuit, two resistors of 10Ω and 15Ω are of supply. Compute the current through 10Ω resistor. 	Status : Answered Chosen Option : 2
Q.67 Ans	 3. 1 4. 5 In an electrical circuit, two resistors of 10Ω and 15Ω are of supply. Compute the current through 10Ω resistor. 1. 4A 	Status : Answered Chosen Option : 2
	$\checkmark 3.1$ $\checkmark 4.5$ In an electrical circuit, two resistors of 10Ω and 15Ω are of supply. Compute the current through 10Ω resistor. $\checkmark 1.4A$ $\checkmark 2.6A$	Status : Answered Chosen Option : 2
	 3. 1 4. 5 In an electrical circuit, two resistors of 10Ω and 15Ω are of supply. Compute the current through 10Ω resistor. 1. 4A 2. 6A 3. 10A 	Status : Answered Chosen Option : 2
	$\checkmark 3.1$ $\checkmark 4.5$ In an electrical circuit, two resistors of 10Ω and 15Ω are of supply. Compute the current through 10Ω resistor. $\checkmark 1.4A$ $\checkmark 2.6A$	Status : Answered Chosen Option : 2
	 3. 1 4. 5 In an electrical circuit, two resistors of 10Ω and 15Ω are of supply. Compute the current through 10Ω resistor. 1. 4A 2. 6A 3. 10A 	Status : Answered Chosen Option : 2
	 3. 1 4. 5 In an electrical circuit, two resistors of 10Ω and 15Ω are of supply. Compute the current through 10Ω resistor. 1. 4A 2. 6A 3. 10A 	Status : Answered Chosen Option : 2

Q.68	In a causal system, sustained oscillations are obtained as outpu locations?	it, what are the pole
Ans	✔ 1. conjugate poles on imaginary axis	
	igma 2. conjugate poles in the left half of s-plane	
	igma 3. real poles in the left half of s-plane	
	igma 4. conjugate poles in the right half of s-plane	
		Question ID : 50389010897 Status : Answered
		Chosen Option : 1
Q.69	Consider the following numbers in sequence 0, 1, 2, 3, 10, 11, 1	2, 13, 20,
Ans	Identify the number system for the above sequence.	
	X 2. Octal	
	X 3. Hexadecimal	
	 4. Quaternary 	
	The second secon	
		Question ID : 50389010912
Q.70 Ans	Compute the operating gate-to-source voltage for an n-channel zero if the Vp = -3.5V. 14V	Status : Answered Chosen Option : 4
	zero if the Vp = -3.5V. 14V 2. 3.5V 33.5V	Status : Answered Chosen Option : 4
	zero if the Vp = -3.5V. 14V 2. 3.5V	Status : Answered Chosen Option : 4
	zero if the Vp = -3.5V. 14V 2. 3.5V 33.5V	Status : Answered Chosen Option : 4
	zero if the Vp = -3.5V. 14V 2. 3.5V 33.5V	Status : Answered Chosen Option : 4
Ans	zero if the Vp = -3.5V. X 14V X 2. 3.5V ✓ 33.5V X 4. 4V A second order system has only imaginary conjugate poles, what	Status : Answered Chosen Option : 4 FET to make drain current Question ID : 50389010908 Status : Answered Chosen Option : 2
Ans	zero if the Vp = -3.5V. 14V 2.3.5V 33.5V 4.4V A second order system has only imaginary conjugate poles, what value for this system?	Status : Answered Chosen Option : 4 FET to make drain current Question ID : 50389010908 Status : Answered Chosen Option : 2
Ans Q.71	zero if the Vp = -3.5V. 14V 2.3.5V 33.5V 4.4V A second order system has only imaginary conjugate poles, what value for this system? 1. between zero and 1	Status : Answered Chosen Option : 4 FET to make drain current Question ID : 50389010908 Status : Answered Chosen Option : 2
Ans Q.71	zero if the Vp = -3.5V. 14V 2.3.5V 33.5V 4.4V A second order system has only imaginary conjugate poles, what value for this system? 1. between zero and 1 2. less than zero	Status : Answered Chosen Option : 4 FET to make drain current Question ID : 50389010908 Status : Answered Chosen Option : 2
Ans Q.71	<pre>zero if the Vp = -3.5V.</pre>	Status : Answered Chosen Option : 4 FET to make drain current Question ID : 50389010908 Status : Answered Chosen Option : 2
Ans Q.71	zero if the Vp = -3.5V. 14V 2.3.5V 33.5V 4.4V A second order system has only imaginary conjugate poles, what value for this system? 1. between zero and 1 2. less than zero	Status : Answered Chosen Option : 4 FET to make drain current Question ID : 50389010908 Status : Answered Chosen Option : 2
Ans Q.71	<pre>zero if the Vp = -3.5V.</pre>	Status : Answered Chosen Option : 4
Ans Q.71	<pre>zero if the Vp = -3.5V.</pre>	Status : Answered Chosen Option : 4

2.72	The Boolean simplified form for $S = (X+Y)(X+Z)$ is _	•.
Ans	X 1.1	
	X 2. X+Y	
	X 3. Y+XZ	
	✓ 4. X+YZ	
	¥. AT12	
		Question ID : 50389010921
		Status : Answered
		Chosen Option : 4
J.73	In an LVDT, when the core is at NULL position, the flux linkage with both	the secondary
Ans	windings is and results in output voltage.	
-115		
	2. unequal, zero	
	🗙 3. equal, maximum	
	🗙 4. unequal, maximum	
		Ouestion ID : 50389010942
		Question ID : 50389010942 Status : Answered
	In a dual slope integrating type DVM, the accuracy of measured voltage integrating time constant and of frequency of oscillation. 1. depends, independent 2. doesn't depend, function	Status : Answered Chosen Option : 3
	integrating time constant and of frequency of oscillation.	Status : Answered Chosen Option : 3
	 integrating time constant and of frequency of oscillation. 1. depends, independent 2. doesn't depend, function 3. doesn't depend, independent 	Status : Answered Chosen Option : 3
	 integrating time constant and of frequency of oscillation. 1. depends, independent 2. doesn't depend, function 3. doesn't depend, independent 	Status : Answered Chosen Option : 3
	 integrating time constant and of frequency of oscillation. 1. depends, independent 2. doesn't depend, function 3. doesn't depend, independent 	Status : Answered Chosen Option : 3 on the Question ID : 50389010926
Ans Q.75	 integrating time constant and of frequency of oscillation. 1. depends, independent 2. doesn't depend, function 3. doesn't depend, independent 	Status : Answered Chosen Option : 3 on the Question ID : 50389010926 Status : Answered Chosen Option : 3
Ans	integrating time constant and of frequency of oscillation. 1. depends, independent 2. doesn't depend, function 3. doesn't depend, independent 4. depends, function	Status : Answered Chosen Option : 3 on the Question ID : 50389010926 Status : Answered Chosen Option : 3
Ans).75	 integrating time constant and of frequency of oscillation. 1. depends, independent 2. doesn't depend, function 3. doesn't depend, independent 4. depends, function 	Status : Answered Chosen Option : 3 on the Question ID : 50389010926 Status : Answered Chosen Option : 3
Ans 2.75	 integrating time constant and of frequency of oscillation. 1. depends, independent 2. doesn't depend, function 3. doesn't depend, independent 4. depends, function Consider the following in context of linear variable differential transform correct choice. P: LVDT consumes low power and has lower hysteresis loss. Q: The dynamic response of LVDT is instantaneous. 1. P and Q both are correct	Status : Answered Chosen Option : 3 on the Question ID : 50389010926 Status : Answered Chosen Option : 3
Ans 2.75	 integrating time constant and of frequency of oscillation. 1. depends, independent 2. doesn't depend, function 3. doesn't depend, independent 4. depends, function Consider the following in context of linear variable differential transform correct choice. P: LVDT consumes low power and has lower hysteresis loss. Q: The dynamic response of LVDT is instantaneous. 1. P and Q both are correct 2. P is correct, Q is incorrect	Status : Answered Chosen Option : 3 on the Question ID : 50389010926 Status : Answered Chosen Option : 3
Ans	 integrating time constant and of frequency of oscillation. 1. depends, independent 2. doesn't depend, function 3. doesn't depend, independent 4. depends, function Consider the following in context of linear variable differential transform correct choice. P: LVDT consumes low power and has lower hysteresis loss. Q: The dynamic response of LVDT is instantaneous. 1. P and Q both are correct 2. P is correct, Q is incorrect 3. P is incorrect, Q is correct	Status : Answered Chosen Option : 3 on the Question ID : 50389010926 Status : Answered Chosen Option : 3 wer and identify the
Ans 2.75	 integrating time constant and of frequency of oscillation. 1. depends, independent 2. doesn't depend, function 3. doesn't depend, independent 4. depends, function Consider the following in context of linear variable differential transform correct choice. P: LVDT consumes low power and has lower hysteresis loss. Q: The dynamic response of LVDT is instantaneous. 1. P and Q both are correct 2. P is correct, Q is incorrect 3. P is incorrect, Q is correct	Status : Answered Chosen Option : 3 on the Question ID : 50389010926 Status : Answered Chosen Option : 3

	The measurement errors in current transformer can be reduce density, and permeability of core material.	
Ans	✔ 1. decreasing, increasing	
	🗙 2. increasing, increasing	
	🗙 3. increasing, decreasing	
	🗙 4. decreasing, decreasing	
		Question ID : 50389010940 Status : Answered
		Chosen Option : 2
2.77	An LED has lower output power, switching speed and LASER as an optical source.	spectral width than the
Ans	🖌 1. slower, higher	
	X 2. faster, higher	
	🗙 3. faster, lower	
	X 4. slower, lower	
		Question ID : 50389010951 Status : Answered
		Chosen Option : 2
	Compute the open loop DC gain if the closed l $\frac{2s+6}{2s^2+10s+14}$ with unity feedback factor.	
	$\frac{2s+6}{2s^2+10s+14}$ with unity feedback factor. 1.0.75 2.3	
	$\frac{2s+6}{2s^2+10s+14}$ with unity feedback factor. 1.0.75 2.3 3.0.5	oop transfer function is
	$\frac{2s+6}{2s^2+10s+14}$ with unity feedback factor. 1.0.75 2.3 3.0.5	
	$\frac{2s+6}{2s^2+10s+14}$ with unity feedback factor. 1.0.75 2.3 3.0.5	oop transfer function is Question ID : 50389010901
Ans	$\frac{2s+6}{2s^2+10s+14}$ with unity feedback factor. 1.0.75 2.3 3.0.5	oop transfer function is Question ID : 50389010901 Status : Answered Chosen Option : 1
Ans	$\frac{2s+6}{2s^2+10s+14}$ with unity feedback factor. 1.0.75 2.3 3.0.5 4.1 Identify the addressing mode of 8085 microprocessor in the f	oop transfer function is Question ID : 50389010901 Status : Answered Chosen Option : 1
Ans	$\frac{2s+6}{2s^2+10s+14}$ with unity feedback factor. 1.0.75 2.3 3.0.5 4.1 Identify the addressing mode of 8085 microprocessor in the f MOV R1, 56H	oop transfer function is Question ID : 50389010901 Status : Answered Chosen Option : 1
Ans	$\frac{2s+6}{2s^2+10s+14}$ with unity feedback factor. 1.0.75 2.3 3.0.5 4.1 Identify the addressing mode of 8085 microprocessor in the f MOV R1, 56H 1. Immediate	oop transfer function is Question ID : 50389010901 Status : Answered Chosen Option : 1
Ans 2.79	$\frac{2s+6}{2s^2+10s+14}$ with unity feedback factor. 1.0.75 2.3 3.0.5 4.1 Identify the addressing mode of 8085 microprocessor in the f MOV R1, 56H 1. Immediate 2. Indirect	oop transfer function is Question ID : 50389010901 Status : Answered Chosen Option : 1
Ans	$\frac{2s+6}{2s^2+10s+14}$ with unity feedback factor. 1.0.75 2.3 3.0.5 4.1 Identify the addressing mode of 8085 microprocessor in the f MOV R1, 56H 1. Immediate 2. Indirect 3. Implied	oop transfer function is Question ID : 50389010901 Status : Answered Chosen Option : 1
Q.78 Ans Q.79 Ans	$\frac{2s+6}{2s^2+10s+14}$ with unity feedback factor. 1.0.75 2.3 3.0.5 4.1 Identify the addressing mode of 8085 microprocessor in the f MOV R1, 56H 1. Immediate 2. Indirect 3. Implied	oop transfer function is Question ID : 50389010901 Status : Answered Chosen Option : 1

Q.80	Consider a signal $y(t) = u(t-2) - u(t-4)$, eva	luate $\int_{-\infty}^{\infty} x(t) \delta(t) dt$
Ans	1.8	
	2.0	
	3.4	
	X 4. 2	
		Question ID : 50389010881
		Status : Answered
		Chosen Option : 2
Q.81	Calculate the decimal equivalent of an octal number 10.	
Ans	🗙 1. 1000	
	2. 18	
	3. 12	
	4.8	
		Question ID : 50389010913
		Status : Answered
		Chosen Option : 4
Q.82	Compute the modulation factor if Vmax=10V, Vmin=2 in an AM syst	tem.
Ans	X 1.1.5	
	2.5	
	V 3. 0.66	
	X 4. 0.2	
		Question ID : 50389010945
		Status : Answered
		Chosen Option : 3
Q.83	Two point DFT of a sequence x[n] is X[k]= [6, 2], compute its inverse	
Ans	X 1. x(n)=[2,2]	
	X 2. x(n)=[2,4]	
	X 3. x(n)=[4,4]	
	✓ 4. x(n)=[4,2]	
		Question ID : 50389010886
		Status : Answered
		Chosen Option : 2

	Calculate the equivalent resistance if two resistors of 50Ω connec series resistor of 25Ω.	ted in parallel with a
Ans	🖌 1. 50 Ω	
	🗙 2. 12.5 Ω	
	🗙 3. 75 Ω	
	🗙 4. 125 Ω	
		Question ID : 50389010870 Status : Answered Chosen Option : 1
	5 A dc circuit is Thevenized and found to have parameters as 25Ω as maximum power transferred to the load?	nd 10V. What will be the
Q.85 Ans	maximum power transferred to the load?	nd 10V. What will be the
	maximum power transferred to the load?	nd 10V. What will be the
	maximum power transferred to the load? 1. 10W 2. 1W	nd 10V. What will be the