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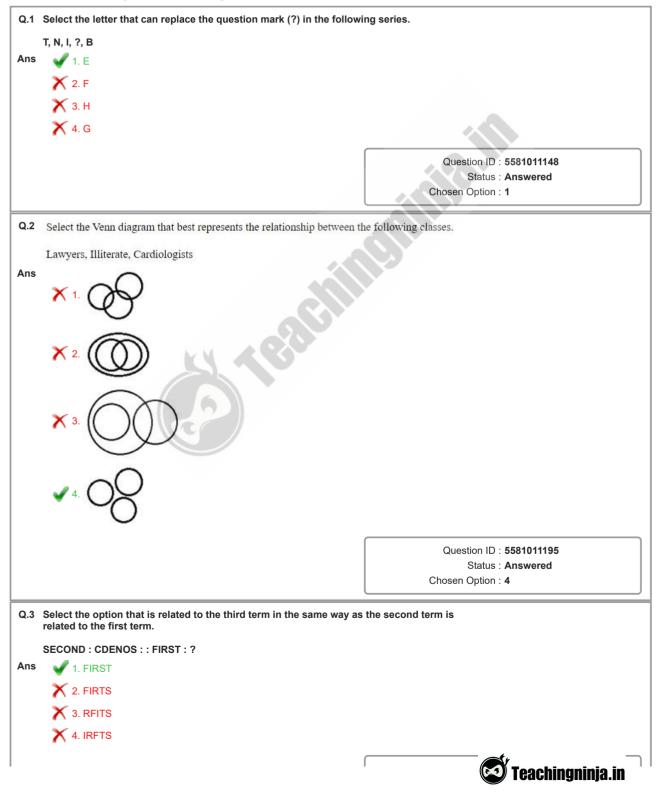
SSC JE ME 27 Sep 2017 Morning Session

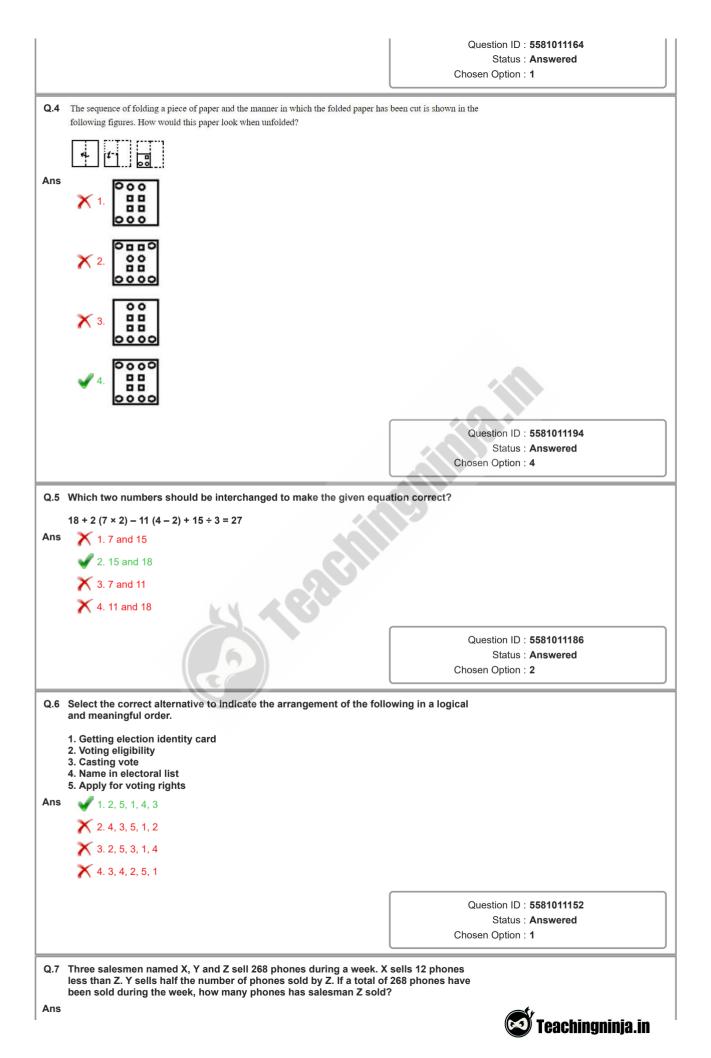


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Section : General Intelligence and Reasoning





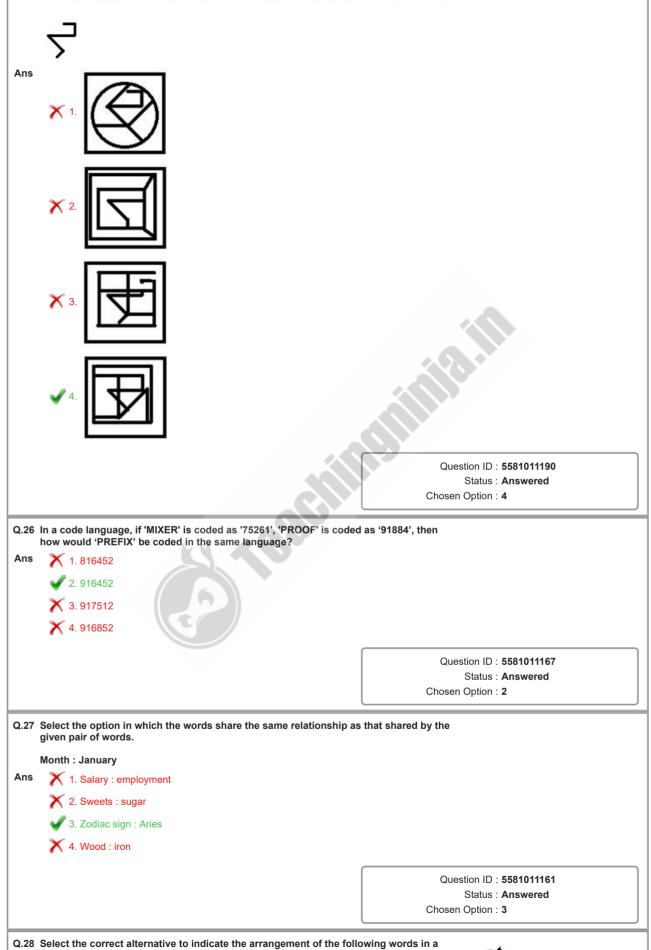
	🗙 1. 108	
	× 2.104	
	✓ 3. 112	
	🗙 4. 116	
		Question ID : 5581011187 Status : Answered
		Chosen Option : 3
). 8	Select the option in which the number-pair shares the same re shared by the given number-pair.	elationship as that
	11 : 2662	
ns	1.7:683	
	✓ 2. 8 : 1024	
	X 3.6:632	
	🗙 4. 9 : 729	
		Question ID : 5581011180
		Status : Answered
		Chosen Option : 2
2.9	In a code language, if 'INCOME' is coded as '181324121422' the coded in the same language?	en how will 'FASTER' be
ns	X 1. 202687219	
	2. 202687228	
	3. 212676229	
	4. 212687229	
		Question ID : 5581011168
		Status : Answered
		Chosen Option : 4
.10	Find the missing number from eveny the hole	
2.10	Find the missing number from among the belo	
.10		
.10	Find the missing number from among the belo	
.10	4 6 8	
.10		
.10	4 6 8	
	4 6 8 6 7 7	
	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	
	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	
	4 6 8 6 7 7 52 85 ? 1.114 2.112 3.113	
	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	
	4 6 8 6 7 7 52 85 ? 1.114 2.112 3.113	
	4 6 8 6 7 7 52 85 ? 1.114 2.112 3.113	Question ID : 5581011184 Status : Not Answered
	4 6 8 6 7 7 52 85 ? 1.114 2.112 3.113	w options. Question ID : 5581011184
Ans	4 6 8 6 7 7 52 85 ? ★ 1. 114 ★ 2. 112 ↓ 3. 113 ★ 4. 111	Question ID : 5581011184 Status : Not Answered Chosen Option :
uns	4 6 8 6 7 7 52 85 ? ★ 1. 114 ★ 2. 112 ★ 3. 113 ★ 4. 111 Tanuj walks 40 m towards south from his home, then he turns now he turns left and walks 20 m. Then he turns right and walk	Question ID : 5581011184 Status : Not Answered Chosen Option :
uns	4 6 8 6 7 7 52 85 ? ★ 1. 114 ★ 2. 112 ★ 3. 113 ★ 4. 111 Tanuj walks 40 m towards south from his home, then he turns	Question ID : 5581011184 Status : Not Answered Chosen Option :
.ns	4 6 8 6 7 7 52 85 ? ★ 1. 114 ★ 2. 112 ★ 3. 113 ★ 4. 111 Tanuj walks 40 m towards south from his home, then he turns now he turns left and walks 20 m. Then he turns right and walk right again and walks 60 m. How far and in which direction is in home?	Question ID : 5581011184 Status : Not Answered Chosen Option :
uns	4 6 8 6 7 7 52 85 ? ★ 1. 114 ★ 2. 112 ★ 3. 113 ★ 4. 111 Tanuj walks 40 m towards south from his home, then he turns now he turns left and walks 20 m. Then he turns right and walk right again and walks 60 m. How far and in which direction is	Question ID : 5581011184 Status : Not Answered Chosen Option :

	✔ 4. 50 m, west	
		Question ID : 5581011172 Status : Answered Chosen Option : 3
.12	Select the number that can replace the question mark (?) ir	n the following series.
	25, 26, 22, 31, 15, ?	
ns	1.42	
	2.43	
	X 3. 38	
	4.40	
		Question ID : 5581011178
		Status : Not Answered
		Chosen Option :
.13	Which two signs should be interchanged to make the giver	n equation correct?
	15 × 12 ÷ 18 – 46 + 42 = 14	
Ans	X 1. × and ÷	
	🗙 2. – and ×	
	✓ 3. + and –	
	 3. + and – 4. ÷ and + 	
		Question ID : 5581011185
		Status : Answered
		Status : Answered Chosen Option : 3
	 ¥ 4. ÷ and + Eight friends P, Q, R, S, T, U, V and W are sitting around a c distances in the same sequence in clockwise manner. T is Q and W interchange their positions, then in which direction ¥ 1. East 	Status : Answered Chosen Option : 3
	 ¥ 4. ÷ and + Eight friends P, Q, R, S, T, U, V and W are sitting around a c distances in the same sequence in clockwise manner. T is Q and W interchange their positions, then in which direction ¥ 1. East ¥ 2. South-west 	Status : Answered Chosen Option : 3
	 ¥ 4. ÷ and + Eight friends P, Q, R, S, T, U, V and W are sitting around a c distances in the same sequence in clockwise manner. T is Q and W interchange their positions, then in which direction 1. East 2. South-west 3. West 	Status : Answered Chosen Option : 3
	 ¥ 4. ÷ and + Eight friends P, Q, R, S, T, U, V and W are sitting around a c distances in the same sequence in clockwise manner. T is Q and W interchange their positions, then in which direction ¥ 1. East ¥ 2. South-west 	Status : Answered Chosen Option : 3 Strcular table at equal sitting in North-east. Now, if on is W sitting?
	 ¥ 4. ÷ and + Eight friends P, Q, R, S, T, U, V and W are sitting around a c distances in the same sequence in clockwise manner. T is Q and W interchange their positions, then in which direction 1. East 2. South-west 3. West 	Status : Answered Chosen Option : 3 Sircular table at equal sitting in North-east. Now, if on is W sitting? Question ID : 5581011176
	 ¥ 4. ÷ and + Eight friends P, Q, R, S, T, U, V and W are sitting around a c distances in the same sequence in clockwise manner. T is Q and W interchange their positions, then in which direction 1. East 2. South-west 3. West 	Status : Answered Chosen Option : 3 Strcular table at equal sitting in North-east. Now, if on is W sitting?
Ans	 ¥. ÷ and + Eight friends P, Q, R, S, T, U, V and W are sitting around a c distances in the same sequence in clockwise manner. T is Q and W interchange their positions, then in which direction 1. East 2. South-west 3. West 4. South 	Status : Answered Chosen Option : 3 Sircular table at equal sitting in North-east. Now, if on is W sitting? Question ID : 5581011176 Status : Answered Chosen Option : 4
Ans A.15	 A. # and # Eight friends P, Q, R, S, T, U, V and W are sitting around a c distances in the same sequence in clockwise manner. T is Q and W interchange their positions, then in which direction 1. East 2. South-west 3. West 4. South 	Status : Answered Chosen Option : 3 Sircular table at equal sitting in North-east. Now, if on is W sitting? Question ID : 5581011176 Status : Answered Chosen Option : 4
Ans 0.15	 ¥. ÷ and + Eight friends P, Q, R, S, T, U, V and W are sitting around a c distances in the same sequence in clockwise manner. T is Q and W interchange their positions, then in which direction 1. East 2. South-west 3. West 4. South 	Status : Answered Chosen Option : 3 Sircular table at equal sitting in North-east. Now, if on is W sitting? Question ID : 5581011176 Status : Answered Chosen Option : 4
uns 1.15	 ¥ 4. # and # Eight friends P, Q, R, S, T, U, V and W are sitting around a c distances in the same sequence in clockwise manner. T is a Q and W interchange their positions, then in which direction 1. East 2. South-west 3. West 4. South Select the option that is related to the third number in the s number is related to the first number. 25 : 625 :: 27 : ? 1. 541 	Status : Answered Chosen Option : 3 Sircular table at equal sitting in North-east. Now, if on is W sitting? Question ID : 5581011176 Status : Answered Chosen Option : 4
.ns	 ¥ 4. ÷ and + Eight friends P, Q, R, S, T, U, V and W are sitting around a c distances in the same sequence in clockwise manner. T is Q and W interchange their positions, then in which direction 1. East 2. South-west 3. West 4. South Select the option that is related to the third number in the s number is related to the first number. 25 : 625 :: 27 : ? 1. 541 2. 616 	Status : Answered Chosen Option : 3 Sircular table at equal sitting in North-east. Now, if on is W sitting? Question ID : 5581011176 Status : Answered Chosen Option : 4
Ans 0.15	 ¥ 4. # and # Eight friends P, Q, R, S, T, U, V and W are sitting around a c distances in the same sequence in clockwise manner. T is a Q and W interchange their positions, then in which direction 1. East 2. South-west 3. West 4. South Select the option that is related to the third number in the s number is related to the first number. 25 : 625 :: 27 : ? 1. 541 	Status : Answered Chosen Option : 3 Sircular table at equal sitting in North-east. Now, if on is W sitting? Question ID : 5581011176 Status : Answered Chosen Option : 4
Ans Ω.15	 A. # and # Eight friends P, Q, R, S, T, U, V and W are sitting around a c distances in the same sequence in clockwise manner. T is a Q and W interchange their positions, then in which direction 1. East A. South-west J. West A. South Select the option that is related to the third number in the s number is related to the first number. 25 : 625 :: 27 : ? 1. 541 2. 616 3. 343 	Status: Answered Chosen Option: 3
Ans 2.15	 A. # and # Eight friends P, Q, R, S, T, U, V and W are sitting around a c distances in the same sequence in clockwise manner. T is a Q and W interchange their positions, then in which direction 1. East A. South-west J. West A. South Select the option that is related to the third number in the s number is related to the first number. 25 : 625 :: 27 : ? 1. 541 2. 616 3. 343 	Status : Answered Chosen Option : 3 Sircular table at equal sitting in North-east. Now, if on is W sitting? Question ID : 5581011176 Status : Answered Chosen Option : 4

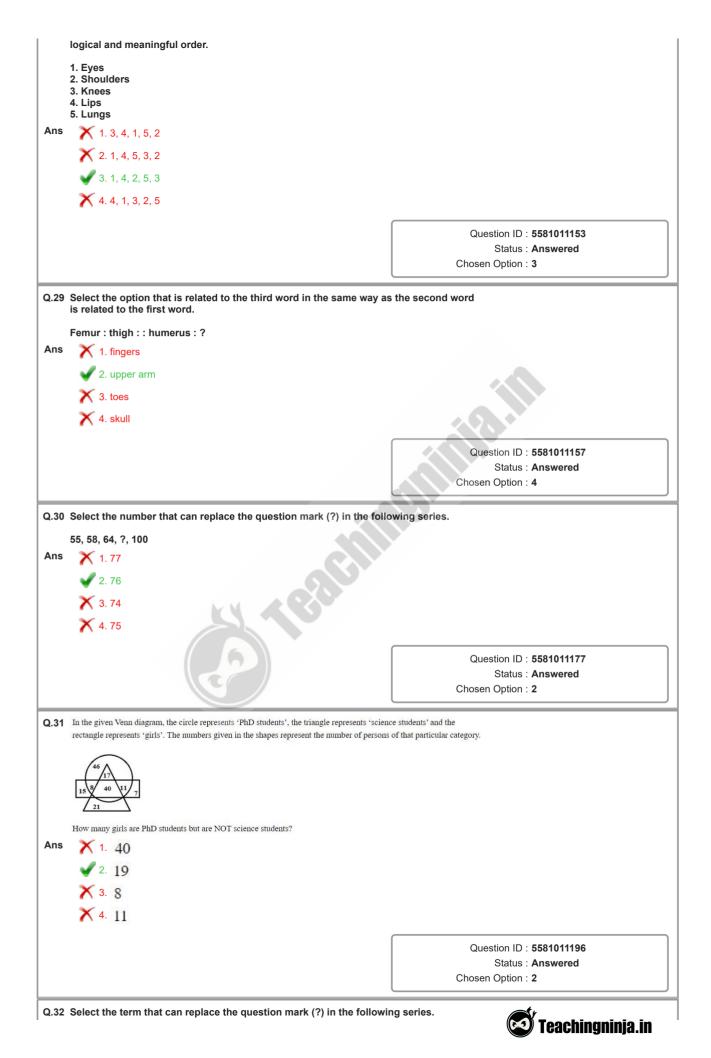
ns	language?	
	🗙 1. ОНҮСМ	
	X 2. QJYFM	
	X 3. PHZDM	
	🖌 4. QHYDM	
		Question ID : 5581011165
		Status : Answered Chosen Option : 4
	Ravindra was facing one of the directions in the beginni anticlockwise, then he again turned 135° anticlockwise. clockwise. Now, if Ravindra is facing east, then which di beginning?	After that he again turned 45°
ns	X 1. East	
	2. West	
	•	
	3. South	
	X 4. North	
		Question ID : 5581011171
		Status : Answered
		Chosen Option : 2
18	Select the term that can replace the question mark (?) in	the following series.
	PARTH, PARTI, QARTI, QARUI, ?, QBSUI	
ns	🗙 1. QBRUJ	
	X 2. QBSVI	
	X 3. RBRUJ	
	A 3. KBRUJ	
	• •	
	4. QBRUI	
	• •	Question ID : 5581011149
	• •	Status : Answered
	• •	
	• •	Status : Answered Chosen Option : 4 tra are sitting in a line in the f Vaishali. Arpita is to the
	4. QBRUI Five friends Arpita, Narayani, Vaishali, Amrapali and Chi class facing the teacher. Chitra is to the immediate left o immediate right of Amrapali. Narayani is not sitting at th middle? 1. Narayani 2. Vaishali 3. Amrapali	Status : Answered Chosen Option : 4 tra are sitting in a line in the f Vaishali. Arpita is to the
	4. QBRUI Five friends Arpita, Narayani, Vaishali, Amrapali and Chi class facing the teacher. Chitra is to the immediate left o immediate right of Amrapali. Narayani is not sitting at th middle? 1. Narayani 2. Vaishali 3. Amrapali	Status : Answered Chosen Option : 4 tra are sitting in a line in the f Vaishali. Arpita is to the e corners. Who is sitting in the Question ID : 5581011175 Status : Answered
.20	 4. QBRUI Five friends Arpita, Narayani, Vaishali, Amrapali and Chiclass facing the teacher. Chitra is to the immediate left of immediate right of Amrapali. Narayani is not sitting at the middle? 1. Narayani 2. Vaishali 3. Amrapali 4. Chitra 	Status : Answered Chosen Option : 4 tra are sitting in a line in the f Vaishali. Arpita is to the e corners. Who is sitting in the Question ID : 5581011175 Status : Answered
.20	 4. QBRUI Five friends Arpita, Narayani, Vaishali, Amrapali and Chi class facing the teacher. Chitra is to the immediate left o immediate right of Amrapali. Narayani is not sitting at th middle? 1. Narayani 2. Vaishali 3. Amrapali 4. Chitra 	Status : Answered Chosen Option : 4 tra are sitting in a line in the f Vaishali. Arpita is to the e corners. Who is sitting in the Question ID : 5581011175 Status : Answered
.20	 4. QBRUI Five friends Arpita, Narayani, Vaishali, Amrapali and Chiclass facing the teacher. Chitra is to the immediate left of immediate right of Amrapali. Narayani is not sitting at the middle? 1. Narayani 2. Vaishali 3. Amrapali 4. Chitra A + B means 'A is the wife of B' A - B means 'A is the son of B' A - B means 'A is the sister of B' A + B means 'A is the father of B' I haternal grandmother 	Status : Answered Chosen Option : 4 tra are sitting in a line in the f Vaishali. Arpita is to the e corners. Who is sitting in the Question ID : 5581011175 Status : Answered

		Question ID : 5581011174
		Status : Answered
		Chosen Option : 2
Q.21	The age of Gopal is one third of his grandfather's age. The age of hi years less than his grandfather. If the total of the ages of all three po What is the age of the grandmother?	
Ans	🗙 1. 48	
	v 2. 45	
	X 3. 44	
	4.46	
	A 4. 40	
		Question ID : 5581011188
		Status : Answered
		Chosen Option : 2
Q.22	Select the option that is related to the third number in the same way number is related to the first number.	as the second
	15:375::12:?	
Ans	X 1.260	
	X 2. 262	
	× 3. 266	
	4. 264	
		Question ID : 5581011181
		Status : Answered
		Chosen Option : 4
Ans	related to the first term. PICKLE : CIPELK : : CATTLE : ? 1. TCAELT 2. TACELT 3. CTAELT 4. TACTLE	
	4. TACTLE	
		Question ID : 5581011162
		Status : Answered
		Chosen Option : 2
Q.24	Two different positions of the same dice are shown. Select the number that will be on the having '2'?	e face opposite to the one
Q.24		e face opposite to the one
Q.24	having '2'? 5 4 4 6 3 1	e face opposite to the one
	having '2'? 5 4 6 4 3 1 6	e face opposite to the one
	having '2'? 5 4 6 1 6 2 3	e face opposite to the one
	having '2'? $5 \\ 4 \\ 6 \\ 3 \\ 1$ $1 \\ 6 \\ 2 \\ 3 \\ 3 \\ 5$	e face opposite to the one
	having '2'? 5 4 6 1 6 2 3	e face opposite to the one
	having '2'? $5 \\ 4 \\ 6 \\ 3 \\ 1$ $1 \\ 6 \\ 2 \\ 3 \\ 3 \\ 5$	
	having '2'? $5 \\ 4 \\ 6 \\ 3 \\ 1$ $1 \\ 6 \\ 2 \\ 3 \\ 3 \\ 5$	Question ID : 5581011189
	having '2'? $5 \\ 4 \\ 6 \\ 3 \\ 1$ $1 \\ 6 \\ 2 \\ 3 \\ 3 \\ 5$	
	having '2'? $5 \\ 4 \\ 6 \\ 3 \\ 1$ $1 \\ 6 \\ 2 \\ 3 \\ 3 \\ 5$	Question ID : 5581011189 Status : Answered

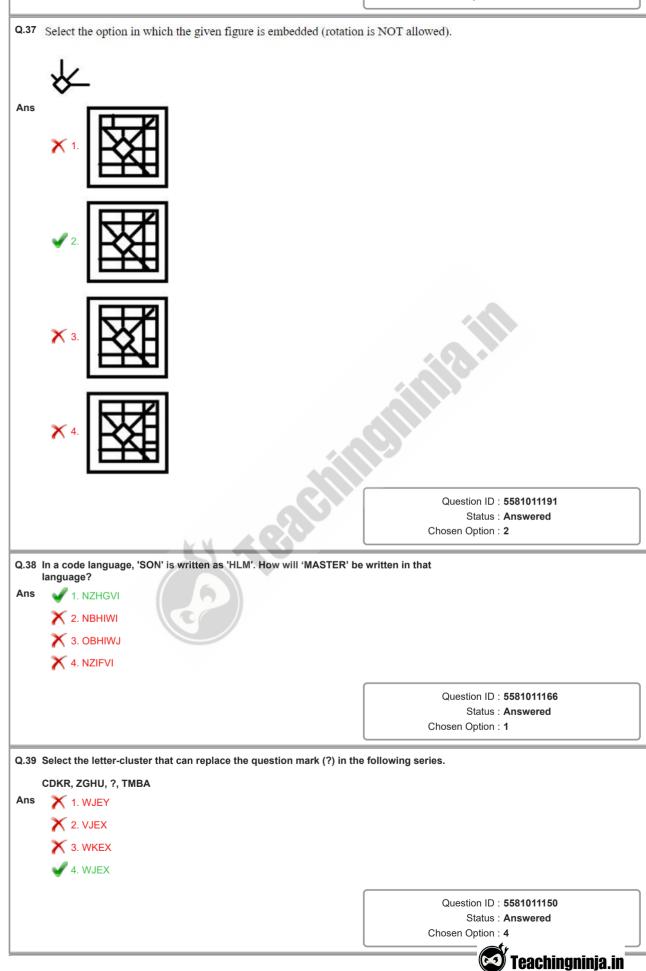








	✔ 1. LCAME	
	X 2. LACEM	
	X 3. CAMLE	
	X 4. LCAEM	
		Question ID : 5581011151 Status : Answered
		Chosen Option : 1
	Select the option in which the numbers the given set of numbers.	share the same relationship as that shared by
	88, 56, 72	
Ans	X 1. 54, 52, 86	
	🗙 2. 50, 20, 60	
	3 . 76, 44, 60	
	X 4. 80, 64, 70	
		Question ID : 5581011183
		Status : Not Answered Chosen Option :
Q.34	Select the number that can replace the o	uestion mark (?) in the following series.
	4, 27, 16, 125, ?	
Ans	🗙 1. 216	
	🗙 2. 625	
	🗙 3. 225	
	✗ 3. 225✓ 4. 36	
		Question ID : 5581011179
		Question ID : 5581011179 Status : Answered
0.35	4.36	Status : Answered Chosen Option : 1
	4. 36 Pointing to the photograph of a girl, And grandfather's only son's wife.' How is th	Status : Answered
	4. 36 Pointing to the photograph of a girl, And grandfather's only son's wife.' How is th 1. Daughter	Status : Answered Chosen Option : 1
	4. 36 Pointing to the photograph of a girl, And grandfather's only son's wife.' How is th 1. Daughter 2. Mother	Status : Answered Chosen Option : 1
	 4. 36 Pointing to the photograph of a girl, And grandfather's only son's wife.' How is the 1. Daughter 2. Mother 3. Sister 	Status : Answered Chosen Option : 1
	4. 36 Pointing to the photograph of a girl, And grandfather's only son's wife.' How is th 1. Daughter 2. Mother	Status : Answered Chosen Option : 1
	 4. 36 Pointing to the photograph of a girl, And grandfather's only son's wife.' How is the 1. Daughter 2. Mother 3. Sister 	It is the daughter of my paternal e girl in the photograph related to Anuj?
	 4. 36 Pointing to the photograph of a girl, And grandfather's only son's wife.' How is the 1. Daughter 2. Mother 3. Sister 	Status : Answered Chosen Option : 1
	 4. 36 Pointing to the photograph of a girl, And grandfather's only son's wife.' How is the 1. Daughter 2. Mother 3. Sister 	Status : Answered Chosen Option : 1 If said, 'She is the daughter of my paternal re girl in the photograph related to Anuj? Question ID : 5581011173
Ans	 4. 36 Pointing to the photograph of a girl, Angrandfather's only son's wife.' How is the 1. Daughter 2. Mother 3. Sister 4. Wife 	Status : Answered Chosen Option : 1 Ij said, 'She is the daughter of my paternal le girl in the photograph related to Anuj? Question ID : 5581011173 Status : Answered Chosen Option : 2
Ans Q.36	 4. 36 Pointing to the photograph of a girl, And grandfather's only son's wife,' How is the 1. Daughter 1. Daughter 2. Mother 3. Sister 4. Wife 	Status : Answered Chosen Option : 1 ij said, 'She is the daughter of my paternal le girl in the photograph related to Anuj? Question ID : 5581011173 Status : Answered Chosen Option : 2
Ans	 4. 36 Pointing to the photograph of a girl, And grandfather's only son's wife.' How is the 1. Daughter 2. Mother 3. Sister 4. Wife Select the letter that can replace the que TKL, UMO, V?R, WQU, XSX	Status : Answered Chosen Option : 1 Ij said, 'She is the daughter of my paternal le girl in the photograph related to Anuj? Question ID : 5581011173 Status : Answered Chosen Option : 2
Ans Q.36	 4. 36 Pointing to the photograph of a girl, And grandfather's only son's wife,' How is the 1. Daughter 2. Mother 3. Sister 4. Wife Select the letter that can replace the que TKL, UMO, V?R, WQU, XSX 1. N	Status : Answered Chosen Option : 1 Ij said, 'She is the daughter of my paternal e girl in the photograph related to Anuj? Question ID : 5581011173 Status : Answered Chosen Option : 2
Ans Q.36	 4. 36 Pointing to the photograph of a girl, And grandfather's only son's wife.' How is the 1. Daughter 2. Mother 3. Sister 4. Wife Select the letter that can replace the que TKL, UMO, V?R, WQU, XSX 1. N 2. O 	Status : Answered Chosen Option : 1 Ij said, 'She is the daughter of my paternal e girl in the photograph related to Anuj? Question ID : 5581011173 Status : Answered Chosen Option : 2
Ans Q.36	 4. 36 Pointing to the photograph of a girl, And grandfather's only son's wife.' How is the 1. Daughter 2. Mother 3. Sister 4. Wife Select the letter that can replace the que TKL, UMO, V?R, WQU, XSX 1. N 2. O 	Status : Answered Chosen Option : 1 Ij said, 'She is the daughter of my paternal e girl in the photograph related to Anuj? Question ID : 5581011173 Status : Answered Chosen Option : 2
Ans Q.36	 4. 36 Pointing to the photograph of a girl, And grandfather's only son's wife,' How is the 1. Daughter 2. Mother 3. Sister 4. Wife Select the letter that can replace the que TKL, UMO, V?R, WQU, XSX 1. N	Status : Answered Chosen Option : 1 Ij said, 'She is the daughter of my paternal e girl in the photograph related to Anuj? Question ID : 5581011173 Status : Answered Chosen Option : 2



Q.40	Select the option that is related to the third term in the same way a related to the first term.	s the second term is
	LCNJ : HYJF : : ORUM : ?	
Ans	🗙 1. JNQI	
	🗙 2. КМРЈ	
	X 3. LNPI	
	4. KNQI	
		Question ID : 5581011163
		Status : Answered Chosen Option : 4
Q.41	Arrange the following words in the order in which they appear in a	n English dictionary.
	1. Dialogue	
	2. Dialysis 3. Diameter	
	4. Diabetic 5. Diabetes	
Ans	X 1. 5, 4, 3, 1, 2	
	2.4, 5, 1, 2, 3	
	3. 5, 4, 1, 2, 3	
	X 4. 5, 4, 2, 3, 1	
		Question ID : 5581011154
		Status : Answered Chosen Option : 3
Ans	1. Leading 2. Leader 3. Learner 4. Leaner 5. Leather ✓ 1. 2, 1, 4, 3, 5 ✓ 2. 2, 1, 3, 5, 4 ✓ 3. 1, 2, 4, 3, 5 ✓ 4. 2, 1, 3, 4, 5	
		Question ID : 5581011155
		Status : Answered Chosen Option : 1
Q.43	Select the option in which the words share the same relationship a given pair of words.	s that shared by the
	Hard-work : success	
Ans	🗙 1. Effort : person	
	✔ 2. Study : knowledge	
	🗙 3. Student : examination	
	X 4. Pride : arrogance	
		Question ID : 5581011159
		Status : Answered
		Chosen Option : 2

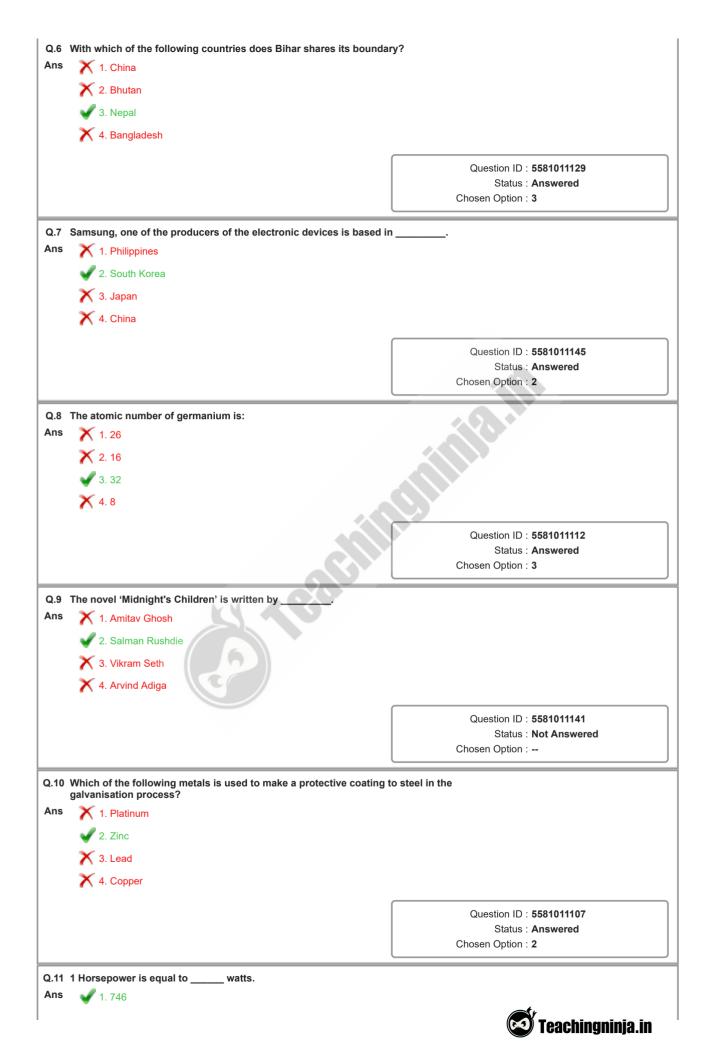


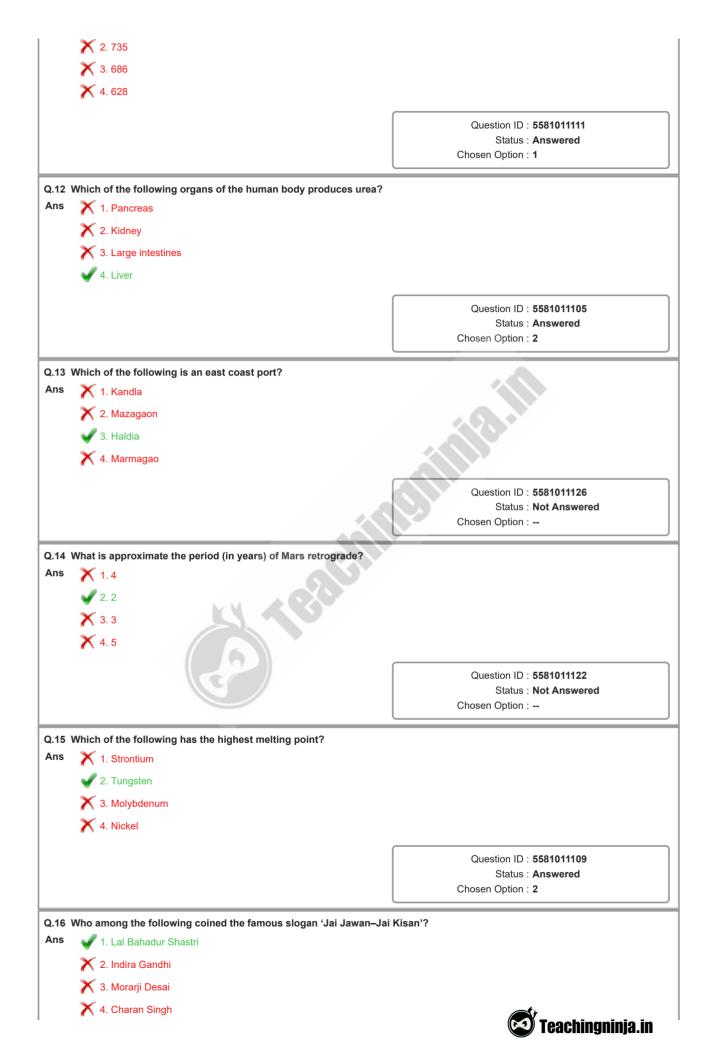
	765 t 5 t [×]	
	165424 ^{∗×}	
		Question ID : 5581011193 Status : Answered
		Chosen Option : 1
	Select the option in which the words share the sam given pair of words.	ne relationship as that shared by the
	Mason : house	
ns	X 1. Medal : bronze	
	🗙 2. Tourist : destination	
	🗙 3. Dentist : college	
	✔ 4. Confectioner : cake	
		Question ID : 5581011160 Status : Answered
	Two statements are given followed by three conclu	Status : Answered Chosen Option : 4 Isions numbered I, II and III.
	Assuming the statements to be true, even if they see commonly known facts, decide which of the conclu- statements. Statements: Some surgeons are doctors. All doctors are experts. Conclusions: I. Some experts are surgeons. II. No expert is surgeon. III. Some experts are doctors. 1. Only conclusions I and II follow. 2. Only conclusions I and III follow. 3. Either conclusion I or II follows.	Status : Answered Chosen Option : 4
	Assuming the statements to be true, even if they see commonly known facts, decide which of the conclu- statements. Statements: Some surgeons are doctors. All doctors are experts. Conclusions: I. Some experts are surgeons. II. No expert is surgeon. III. Some experts are doctors. 1. Only conclusions I and II follow. 2. Only conclusions I and III follow.	Status : Answered Chosen Option : 4
	Assuming the statements to be true, even if they see commonly known facts, decide which of the conclu- statements. Statements: Some surgeons are doctors. All doctors are experts. Conclusions: I. Some experts are surgeons. II. No expert is surgeon. III. Some experts are doctors. 1. Only conclusions I and II follow. 2. Only conclusions I and III follow. 3. Either conclusion I or II follows.	Status : Answered Chosen Option : 4



∠ 1. − ∏	
× 2.	
X 3.	
X 4.	
	Question ID : 5581011192 Status : Answered
	Chosen Option : 1
Q.48 Two statements are given followed by three conclusions numbered Assuming the statements to be true, even if they seem to be at vari	
commonly known facts, decide which of the conclusions logically statements.	
Statements:	
Some hens are cranes. Some cranes are ducks.	
Conclusions: I. No hen is duck. II. Some ducks are cranes. III. Some hens are ducks.	
Ans 1. Conclusion II and either I or III follow.	
X 2. Only conclusions I and II follow.	
X 3. Conclusion I and either II or III follow.	
X 4. Only conclusions I and III follow.	
	Question ID : 5581011170
	Status : Answered Chosen Option : 2
Q.49 'March' is related to 'third' in the same way as 'October' is related t	oʻ '
Ans X 1. seven	·
X 2. month	
X 3. ninth	
4. tenth	
	Question ID : 5581011156
	Status : Answered Chosen Option : 4
Q.50 'Mamba' is related to 'snake' in the same way as '' is relat	ed to 'bird'.
Ans χ 1. wings	
🗙 2. fly	
🗙 3. sky	
V 4. eagle	
	Question ID : 5581011158
	Status : Answered Chosen Option : 4
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Q.1	What is India's rank in the International Intellectual Property I the US Chamber of Commerce's Global Innovation Policy Cer	
Ans	X 1. 44th	
	X 2. 29th	
	X 3. 28th	
	✓ 4. 36th	
		Question ID : 5581011100 Status : Not Answered
		Chosen Option :
~ ^		a solaidh a fall suide a
Q.2	With reference to the sessions of the Indian National Congres pairs is correct?	s which of the following
Ans	🗙 1. 1939 - Haripura	
	🗙 2. 1929 - Bombay	
	✔ 3. 1907 - Surat	
	🗙 4. 1917 - Madras	
		Question ID : 5581011135 Status : Answered
		Chosen Option : 4
0.3	Through which of the following countries does the Equator N	OT pass?
Ans	1. Uganda	
	2. Thailand	
	X 3. Gabon	
	X 4. Indonesia	
		Question ID : 5581011127
		Status : Not Answered Chosen Option :
	Bharatiya Janata Party(BJP) was founded as a political party	in India in
Ans		
	2. 1965	
	3. 1980	
	X 4. 1954	
		Question ID : 5581011137
		Status : Not Answered
		Chosen Option :
Q.5	Salivary amylase which is contained in saliva, digests	and converts it into
Ans	maltose (disaccharide).	
	× 2. fat	
	X 3. vitamin	
	X 4. protein	
	A. protein	
		Question ID : 5581011108
		Status : Answered Chosen Option : 1



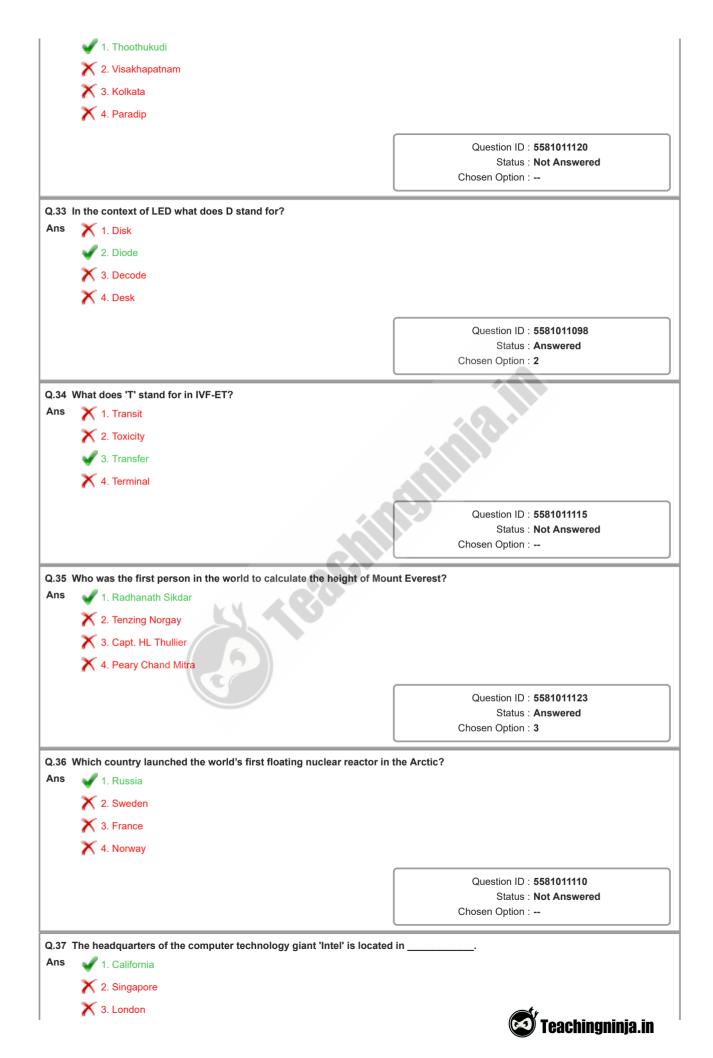


		Question ID : 5581011139
		Status : Answered
		Chosen Option : 1
Q.17	In his Independence Day address (2019), Prime Minister Naren appointment of	dra Modi announced the
Ans	X 1. Chief of Postal Department	
	🗙 2. Chief of National Museum	
	✓ 3. Chief of Defence Staff	
	4. Chief of Textile Board	
		Question ID : 5581011099
		Status : Answered Chosen Option : 3
Q.18	Which of the following states is also known as the 'Molasses E	Basin'?
Ans	🗙 1. Tripura	
	🗙 2. Assam	
	X 3. Jharkhand	
	 4. Mizoram 	
	1. MESIAM	
		Question ID : 5581011125
		Status : Not Answered
		Chosen Option :
	 1. Vikram 2. Keshav 3. Chander 4. Pragyan 	
		Question ID : 5581011103
		Status : Answered Chosen Option : 4
Q.20	Which of the following is NOT a Vedanga?	
Ans	🗙 1. Siksha	
	🗙 2. Kalpa	
	✓ 3. Mundaka	
	X 4. Chanda	
		Question ID : 5581011131
		Status : Not Answered
		Chosen Option :
Q.21	Which among the following is equivalent to 1 Pascal?	
Ans	1. 1 newton per square meter	
	2. 1 newton per centimetre	
	X 3. 1 newton per metre	
	X 4. 1 newton per square centimetre	
	A 4. I newton per square centimetre	
		Question ID : 5581011113
		Status
		Teachingninja.in

		Chosen Option : 1
Q.22	The first meeting of the Constituent Assembly was held in _	
Ans	✓ 1. Delhi	
	2. Madras	
	X 3. Kolkata	
	× 4. Bombay	
		Question ID : 5581011138
		Status : Not Answered Chosen Option :
	Which of the following woman scientists is associated with number 109?	the element having atomic
Ans	✔ 1. Lise Meitner	
	🗙 2. Marie Curie	
	🗙 3. Irene Joliot Curie	
	🗙 4. Emmy Noether	
		Question ID : 5581011116 Status : Answered
		Chosen Option : 2
Q.24 Ans	The venue of the 52nd ASEAN summit was in	
-115	-	
	2. Jakarta	
	X 3. Tutong	
	X 4. Singapore	
	4. Singapore	Question ID : 5581011104
	4. Singapore	Status : Not Answered
	4. Singapore	
Q.25	4. Singapore	Status : Not Answered Chosen Option :
	KY - 836	Status : Not Answered Chosen Option :
	The 'Photu La' pass is located in which of the following range 1. Karakoram	Status : Not Answered Chosen Option :
	The 'Photu La' pass is located in which of the following rank 1. Karakoram 2. Pir Panjal	Status : Not Answered Chosen Option :
	The 'Photu La' pass is located in which of the following range 1. Karakoram 2. Pir Panjal 3. Ladakh	Status : Not Answered Chosen Option :
	The 'Photu La' pass is located in which of the following rank 1. Karakoram 2. Pir Panjal	Status : Not Answered Chosen Option :
	The 'Photu La' pass is located in which of the following range 1. Karakoram 2. Pir Panjal 3. Ladakh	Status : Not Answered Chosen Option : ges of the Himalayas? Question ID : 5581011124
	The 'Photu La' pass is located in which of the following range 1. Karakoram 2. Pir Panjal 3. Ladakh	Status : Not Answered Chosen Option : ges of the Himalayas?
	The 'Photu La' pass is located in which of the following range 1. Karakoram 2. Pir Panjal 3. Ladakh	Status : Not Answered Chosen Option : ges of the Himalayas? Question ID : 5581011124 Status : Not Answered
Ans Q.26	The 'Photu La' pass is located in which of the following range 1. Karakoram 2. Pir Panjal 3. Ladakh 4. Zaskar Which famous scientist posed the question, 'If time travel is	Status : Not Answered Chosen Option : ges of the Himalayas? Question ID : 5581011124 Status : Not Answered Chosen Option :
Ans Q.26	The 'Photu La' pass is located in which of the following range 1. Karakoram 2. Pir Panjal 3. Ladakh 4. Zaskar Which famous scientist posed the question, 'If time travel is tourists from the future?'	Status : Not Answered Chosen Option : ges of the Himalayas? Question ID : 5581011124 Status : Not Answered Chosen Option :
Ans Q.26	The 'Photu La' pass is located in which of the following range 1. Karakoram 2. Pir Panjal 3. Ladakh 4. Zaskar Which famous scientist posed the question, 'If time travel is tourists from the future?' 1. Albert Einstein	Status : Not Answered Chosen Option : ges of the Himalayas? Question ID : 5581011124 Status : Not Answered Chosen Option :
Ans Q.26	The 'Photu La' pass is located in which of the following range 1. Karakoram 1. Karakoram 2. Pir Panjal 3. Ladakh 4. Zaskar Which famous scientist posed the question, 'If time travel is tourists from the future?' 1. Albert Einstein 2. Jane Hawking	Status : Not Answered Chosen Option : ges of the Himalayas? Question ID : 5581011124 Status : Not Answered Chosen Option :
Ans Q.26	The 'Photu La' pass is located in which of the following range 1. Karakoram 1. Karakoram 2. Pir Panjal 3. Ladakh 4. Zaskar Which famous scientist posed the question, 'If time travel is tourists from the future?' 1. Albert Einstein 2. Jane Hawking 3. Issac Newton	Status : Not Answered Chosen Option : ges of the Himalayas? Question ID : 5581011124 Status : Not Answered Chosen Option :
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Ans Q.26	The 'Photu La' pass is located in which of the following range 1. Karakoram 1. Karakoram 2. Pir Panjal 3. Ladakh 4. Zaskar Which famous scientist posed the question, 'If time travel is tourists from the future?' 1. Albert Einstein 2. Jane Hawking 3. Issac Newton	Status : Not Answered Chosen Option : ges of the Himalayas? Question ID : 5581011124 Status : Not Answered Chosen Option :
Ans Q.26	The 'Photu La' pass is located in which of the following range 1. Karakoram 1. Karakoram 2. Pir Panjal 3. Ladakh 4. Zaskar Which famous scientist posed the question, 'If time travel is tourists from the future?' 1. Albert Einstein 2. Jane Hawking 3. Issac Newton	Status : Not Answered Chosen Option : ges of the Himalayas? Question ID : 5581011124 Status : Not Answered Chosen Option : possible, where are the

	What is the maximum amount of investment permissible per se Pradhan Mantri Vaya Vandana Yojana on or before March 31, 20	020?
ns	1. ₹15 lakhs	
	X 2. ₹12 lakhs	
	X 3. ₹10 lakhs	
	X 4. ₹5 lakhs	
		Question ID : 5581011144 Status : Not Answered
		Chosen Option :
.28 I .ns	Most of the sun's mass is:	
115	X 1. Carbon	
	2. Hydrogen	
	X 3. Nitrogen	
	X 4. Helium	
		Question ID : 5581011106
		Status : Answered
		Chosen Option : 2
29 1	With reference to the currencies of the world which of the follo	wing pairs is correctly
I	matched?	and pure is content
ns	🗙 1. China - Ruble	
	🗙 2. Bhutan - Peso	
	✔ 3. Myanmar - Kyat	
	🗙 4. Russia - Yen 🧄	
		Question ID : 5581011146 Status : Not Answered
		Chosen Option :
	With reference to the tourist sites of India which of the followin INCORRECTLY matched?	g pairs is
ns	🗙 1. Kodai Kanal - Tamil Nadu	
	🗙 2. Mount Abu - Rajasthan	
	3. Badrinath - Himachal Pradesh	
	4. Panhala- Maharashtra	
		Question ID : 5581011128
		Status : Answered Chosen Option : 1
		Chosen Option . 1
.31	The summer capital of British India was	
ns	🗙 1. Munnar	
	✔ 2. Shimla	
	X 3. Nainital	
	4. Coorg	
	· · · ·	
		Question ID : 5581011130
		Status : Answered





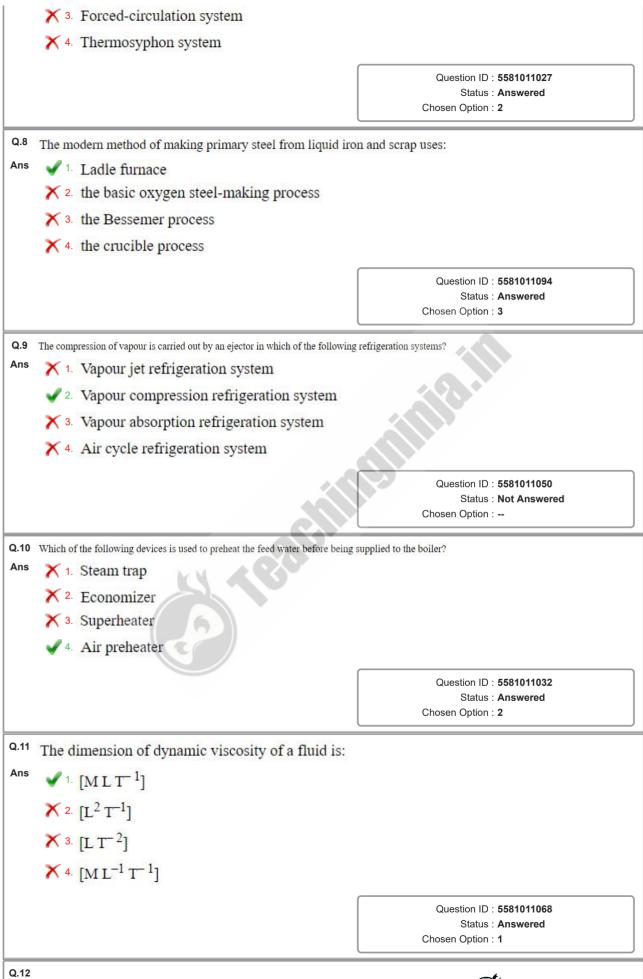
		Question ID : 5581011097
		Status : Not Answered Chosen Option :
Q.38 N	loble gases are	
Ans	1. monoatomic	
	X 2. polyatomic	
	X 3. triatomic	
	X 4. diatomic	
		Question ID : 5581011118
		Status : Not Answered
		Chosen Option :
Q.39 W	Vhich of the following is NOT a certification mark employed on f	food products?
	X 1. FSSAI	
	X 2. AGMARK	
	X 3. FPO	
	🗸 4. BIS Hallmark	
		Question ID : 5581011114 Status : Answered
		Chosen Option : 4
	Vhich of the following pairs is INCORRECTLY matched?	
	 2. 1556 - Battle of Haldighati 	
	X 3. 1764 - Battle of Buxar	
	X 4. 1539 - Battle of Chausa	
	4. 1539 - Ballie of Chausa	
		Question ID : 5581011134
		Status : Not Answered Chosen Option :
	Who among the following was conferred with the Rajiv Gandhi K he year 2019?	hel Ratna Award for
Ans	X 1. Gaurav Gill	
	X 2. Promod Bhagat	
	✓ 3. Deepa Malik	
	X 4. Pooja Dhanda	
		Question ID : 5581011101
		Status : Not Answered Chosen Option :
Q.42 TI	he famous Shanti Swarup Bhatnagar Prize is given in the field o	of
-	X 1. Architecture	
	2. Science and Technology	
	X 3. Journalism	
	· · · · · · · · · · · · · · · · · · ·	

Status : Not Answered Chosen Option : --Q.43 Which of the following was NOT added to the list of registered Geographical Indication(GI) tags in August 2019? Ans X 1. Tirur Betel leaf 2. Kandhamal Turmeric 3. Palani Panchamirtham X 4. Tawlhlohpuan Question ID : 5581011102 Status : Not Answered Chosen Option : --Q.44 Which of the following metal - ore pairs is correct? Ans 1. Mercury - cinnabar X 2. Uranium - bauxite X 3. Sodium - galena X 4. Lead – hematite Question ID : 5581011119 Status : Answered Chosen Option : 1 Q.45 Who among the following drafted the Indian Penal Code which later became the basis of the Indian Criminal Code? Ans X 1. William Wedderburn 2. Thomas Babington Macaulay 3. Maurice Linford Gwyer X 4. Sir Henry McMohan Question ID : 5581011133 Status : Not Answered Chosen Option : -ceased to be a member after the reconstitution of the NITI Aayog in June 2019 Q.46 Ans 1. Bibek Debroy 2. Rajiv Kumar 3. Ramesh Chand X 4. Rajnath Singh Question ID : 5581011136 Status : Not Answered Chosen Option : --Q.47 The atomic number of which of the following elements is 11? Ans X 1. Silicon 2. Germanium 3. Carbon 4. Sodium Question ID : 5581011117 Status : Answered Chosen Option Teachingninja.in

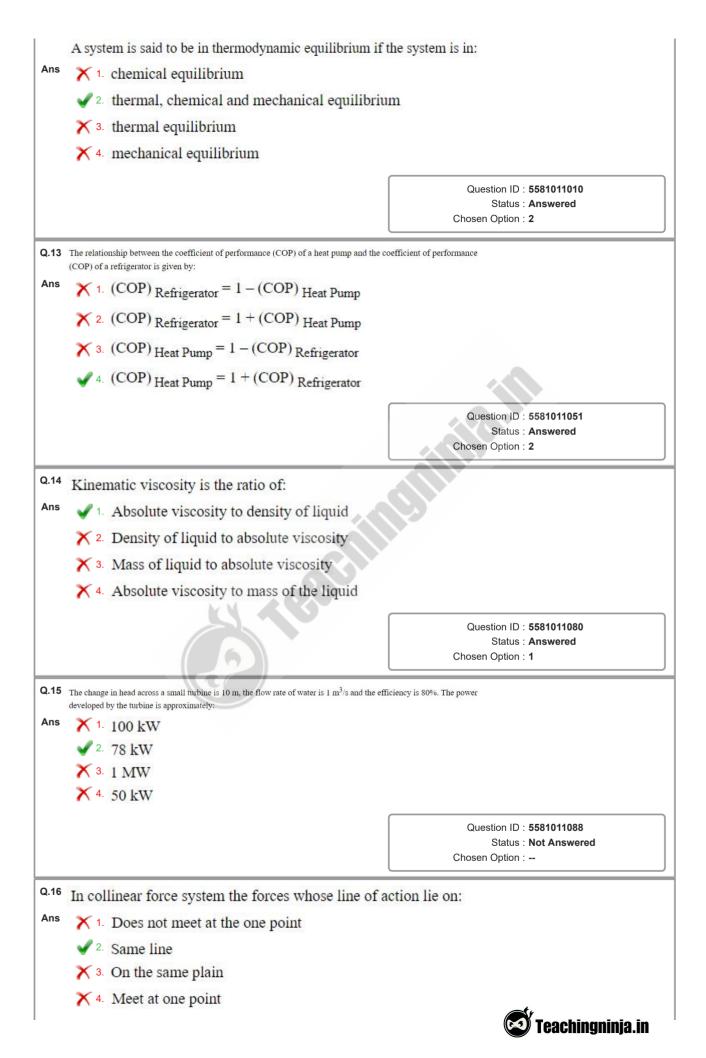
Ans X 1. Ain-i-Akbari X 2. Siyar-ul-Mutakherin J 3. Tarikh-i-Firuzshahi X 4. Mantakhab-ul-Tawarikh Question ID : 5581011132 Status : Answered Chosen Option : 1 Q.49 As of August 2019 who is the only Indian to figure among the Forbes list of world's highest-paid female athletes?	
 3. Tarikh-i-Firuzshahi 4. Mantakhab-ul-Tawarikh Question ID : 5581011132 Status : Answered Chosen Option : 1 Q.49 As of August 2019 who is the only Indian to figure among the Forbes list of world's highest-paid female athletes? 	
X 4. Mantakhab-ul-Tawarikh Question ID : 5581011132 Status : Answered Chosen Option : 1 Q.49 As of August 2019 who is the only Indian to figure among the Forbes list of world's highest-paid female athletes?	
Question ID : 5581011132 Status : Answered Chosen Option : 1 Q.49 As of August 2019 who is the only Indian to figure among the Forbes list of world's highest-paid female athletes?	
Status : Answered Chosen Option : 1 Q.49 As of August 2019 who is the only Indian to figure among the Forbes list of world's highest-paid female athletes?	
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Q.49 As of August 2019 who is the only Indian to figure among the Forbes list of world's highest-paid female athletes?	
highest-paid female athletes?	
Ans X 1 Saina Nehwal	
Ans X 1. Saina Nehwal	
X 3. Mary Kom	
X 4. Sania Mirza	
	_
Question ID : 5581011142	
Status : Not Answered Chosen Option :	
Q.50 Who was the first Indian sprinter to win a gold medal at the U-20 World Championships in a 400m event?	
Ans 🗸 1. Hima Das	
🗙 2. PT Usha	
X 3. Tintu Luka	
X 4. Seema Singh	
Question ID : 5581011143	
Status : Answered	
Chosen Option : 1	
Section : Part C General Engineering Mechanical	
Q.1 In practice, the pressure rise in an SI engine during combustion is lower than that in an air-standard Otto cycle for the	
same heat input because of:	
Ans variable specific heat and dissociation	
\times 2 detonation in the farther regions from the spark plug	
X 3. leakage past the piston rings	
\times 4 resistance to flow in the air filter	
Question ID : 5581011023 Status : Not Answered	
Chosen Option :	
Q.2 Which of the following fittings is used to extinguish the boiler furnace fire in case the water level falls below the safe level?	
Ans X 1. Feed check valve	
X 2. Safety valve	
🖌 3. Fusible plug	
X 4. Blow-off cock	
Questio Contraction Teachingninja.in	

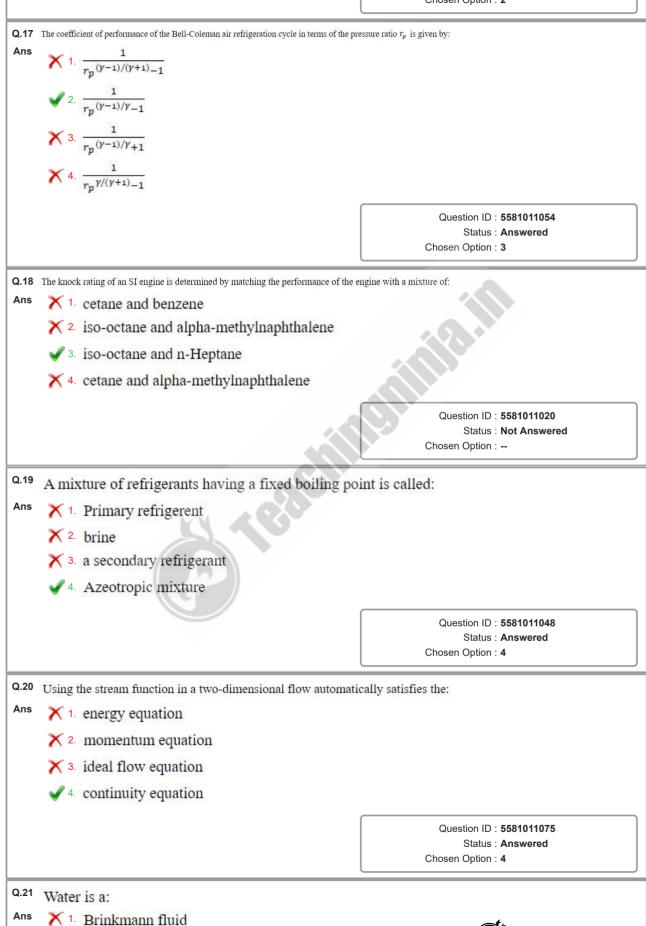
Status : **Answered** Chosen Option : **4**

Q.3 The steady flow energy equation: $Q = m(h_2 - h_1)$ is applicable for: Ans X 1. Nozzle X 2. Turbine X 3. Compressor ✓ 4. Boiler Question ID : 5581011012 Status : Answered Chosen Option : 4 Q.4 If the compression of air is carried out in a large number of stages with perfect intercooling between the stages, then the overall compression approaches an: Ans ✗ 1 isochoric process X 2. isenthalpic process ✗ 3. isentropic process 4 isothermal process Question ID : 5581011045 Status : Answered Chosen Option : 2 Q.5 Determine the total pressure on a circular plate of diameter 1.5 m which is placed vertically in water in such a way that the center of plate is 3 m below the surface of water. Ans ✓ 1. 52002.81 N X 2. 520.028 N X 3. 52.002 N X 4. 5200.281 N Question ID : 5581011067 Status : Not Answered Chosen Option : --Q.6 An undesirable property of a refrigerant is its: Ans X 1. low freezing point X 2. low viscosity X ₃ high miscibility with lubricating oil 4 low latent heat of evaporation Question ID : 5581011052 Status : Answered Chosen Option : 3 Q.7 Which of the following engine cooling systems is commonly employed in heavy trucks? Ans ✗ 1. Evaporative cooling system 2. Air cooling system with fins Teachingninia.in

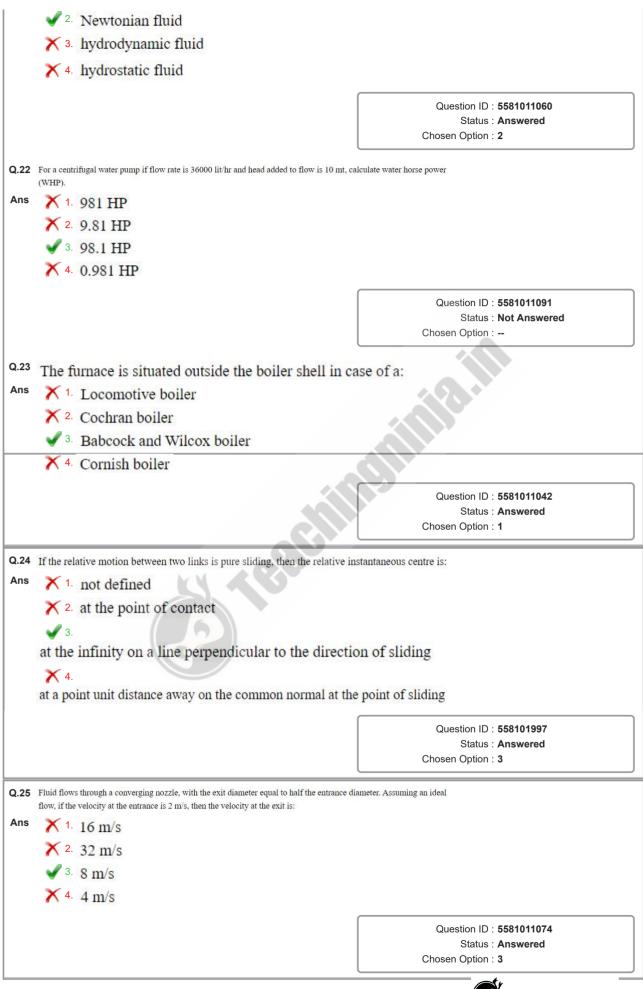










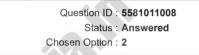




Ans × 1. PL³/24EI × 2. PL³/EI ✓ 3. PL³/3EI × 4. PL³/48EI

> Question ID : 5581011002 Status : Answered Chosen Option : 1

- Q.27 The steam which contains moisture or particles of water in suspension is known as:
- Ans X 1. Dry saturated steam
 - ✓ 2. Wet steam
 - 🗙 3. Super wet steam
 - X 4. Superheated steam



- Q.28 A body is in equilibrium when:
- Ans X 1 no force or moment acts on the body
 - 2. the vector sum of external forces and moments is zero
 - ✗ ₃. the body is accelerating
 - $X^{4.}$ the vector sum of external forces is zero



- Q.29 Total loss developed in series of pipes is:
- Ans X 1. Zero

Ans

- X 2. Sum of local losses only
- ✗ ₃ Sum of losses in each pipe
- 4. Sum of local losses plus losses in each pipe

Question ID : 5581011072 Status : Answered Chosen Option : 3

- Q.30 For the same maximum and minimum temperatures, the Rankine cycle has:
 - X 1 more efficiency than that of the Carnot cycle
 - X 2. equal efficiency to that of the Carnot cycle
 - ✓ ^{3.} lower specific work output than that of the Carnot cycle
 - X 4 higher specific work output than that of the Carnot cycle



Status : Answered Chosen Option : 3

- Q.31 The kinematic viscosity of a fluid is the:
- Ans X 1. viscous force / strain
 - 🗙 2. dynamic viscosity / pressure
 - ✓ 3. dynamic viscosity / density
 - X 4. viscous force / flow rate

Question ID : **5581011083** Status : **Answered** Chosen Option : **3**

Q.32 A path line:

- Ans X^{1} cannot be defined for fluid flows
 - 🗙 2. indicates fluid velocity
 - ✓ 3. indicates path taken by a fluid element
 - ✗ ₄ indicates local fluid direction

Question ID : **5581011071** Status : **Answered** Chosen Option : **3**

Q.33 Function of governor is to:

- Ans X 1. Reduced fluctuations of speed
 - X 2. Regulate the speed during one cycle
 - \times 3. Minimise the vibration of a cycle
 - ✓ 4. Maintain the speed of engine within specified limits

Question ID : 558101998 Status : Answered Chosen Option : 4

Q.34 Tool steels:

- Ans X 1. have a carbon content of less than 0.5%
 - 2. typically contain carbides
 - ✗ ₃ cannot hold hardness at an elevated temperature
 - ✗ ₄. are not very resistant to abrasion

Question ID : **5581011092** Status : **Answered** Chosen Option : **2**

Q.35 In a locomotive boiler, the draught is produced by:

- Ans X 1. chimney
 - 🗙 2. an induced draught fan
 - 🖋 3. steam jet



🗙 4. centrifugal fan

Question ID : **5581011035** Status : **Answered** Chosen Option : **1**

Q.36 The volume of air delivered by the compressor is called:

Ans v 1. Compressor capacity

- X 2. Compression ratio
- 🗙 3. Free air delivery
- 🗙 4. Swept volume

Question ID : **5581011046** Status : **Answered** Chosen Option : **1**

Q.37 Natural drought is produced:

Ans X 1. By the use of steam jet

- ✓ 2. By the use of chimney
- ✗ ₃. By the use of mechanical fan & steam jet
- ✗ ₄. By the use of mechanical fan

Question ID : 5581011031 Status : Answered Chosen Option : 2

Q.38 For Isochoric Processes, which of the following property remains constant?

- Ans 🗹 1. Volume
 - 🗙 2. Temperature
 - 🗙 3. Pressure
 - 🗙 4. Entropy

Question ID : **5581011011** Status : **Answered** Chosen Option : **1**

- Q.39 In an ideal fluid flow, the:
- Ans X 1. surface tension forces are zero.
 - 🗙 2. pressure is equal everywhere.
 - ✓ 3. Viscosity is zero.
 - ✗ ₄ pressure increases linearly with depth.

Question ID : 5581011061 Status : Answered Chosen Option : 3

Q.40 Second Law of Thermodynamics defines:

Ans X 1. Internal Energy

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Question ID : **5581011016** Status : **Answered** Chosen Option : **2**

Q.41 The head loss in pipe bend is proportional to:

('V' is fluid velocity and 'g' is acceleration due to gravity.)

Ans (V/2g) (V/2g) $(Vg)^{1/2}$ $(Vg)^{1/2}$ $(Vg)^{2/2}$

> Question ID : 5581011084 Status : Answered Chosen Option : 4

Q.42 The volume of a wooden block, of specific gravity of 0.5, is 0.1 m³. The volume of the block immersed in water when floating is:

Ans $(1.0.005 \text{ m}^3)$ $(2.0.05 \text{ m}^3)$ $(3.0.1 \text{ m}^3)$ $(4.0.02 \text{ m}^3)$

> Question ID : **5581011066** Status : **Answered** Chosen Option : **3**

Q.43 During quenching, martensite is produced:

Ans 🗙 1.

with an appropriate cooling rate such that the carbon has time to migrate

- X 2. with low cooling rate
- ✓ 3. Rapid cooling rate
- ✗₄ medium cooling rate

Question ID : **5581011096** Status : **Answered** Chosen Option : **1**

Q.44 If pitch diameter is 200 mm and number of teeth are 20 then circular pitch of the gear will be:

Ans ✓ 1. 31.4 mm X 2. 314 mm X 3. 0.314 mm X 4. 3.14 mm



Status : **Answered** Chosen Option : **1**

Q.45 A tapered roller bearing:

Ans X 1. is the same as a needle bearing

V 2.

is designed such that all elements in the roller surface and raceways intersect at a common point on the nearing axis.

- 🗙 3. cannot take radial loading
- ✗ ₄ cannot take thrust loading

Question ID : **558101999** Status : **Not Answered** Chosen Option : --

Q.46 Steam which is formed in contact with a water is known as:

- Ans 🗸 1. Saturated steam
 - X 2. Supersaturated steam
 - ✗ 3. Dry saturated steam
 - X 4. Superheated steam

Question ID : 5581011006 Status : Answered Chosen Option : 4

Q.47 Which of the following devices is present in the vapour absorption refrigeration system and absent in the vapour compression refrigeration system?

- Ans X 1. Evaporator
 - X 2. Throttling valve
 - 🖌 3. Generator
 - 🗙 4. Compressor

Question ID : **5581011049** Status : **Answered** Chosen Option : **4**

- Q.48 A fluid is defined as one which:
- Ans X 1. is solid-like when there is no motion
 - 2. Deforms continuously when subjected to shear stress
 - × 3. cannot withstand shear
 - 术 ₄ can withstand elongation

Question ID : 5581011063 Status : Answered Chosen Option : 2

Q.49 The Reynolds number represents:

Ans \checkmark 1. $\left(\frac{\text{inertial forces}}{\text{viscous forces}}\right)$ in a fluid \thickapprox 2. $\left(\frac{\text{viscous forces}}{\text{gravitational forces}}\right)$ in a fluid



✗ ₃ pressure forces in a fluid

✗⁴ viscous forces in a fluid

Question ID : **5581011078** Status : **Answered** Chosen Option : **1**

Q.50 Specific speed indicates:

- Ans X 1. type of pump
 - ✓ 2. rated rpm
 - ✗ ₃ RPM at maximum efficiency point
 - ✗ ₄. RPM at no load

Question ID : **5581011090** Status : **Answered** Chosen Option : **2**

Q.51 Willian's line method, Morse test and motoring test can all be used to find which of the following for an IC engine?

- Ans X 1 Indicated mean effective pressure
 - X 2. Indicated power
 - ✓ 3. Frictional power
 - X 4. Brake power

Question ID : 5581011021 Status : Answered Chosen Option : 2

Q.52 The flow rate is 1 m^3 /s in a pipe of radius 1 m. The velocity of the fluid is approximately:

- Ans 🗙 1. 1 m/s
 - X 2. 1/2π m/s
 - 🖌 ^{3.} 1/π m/s
 - X 4. 2/π m/s

Question ID : 5581011073
Status : Answered
Chosen Option : 3

- Q.53 Typical stainless steel are alloy steels with:
- Ans X 1. less than 10.5% chromium and more than 1.2% carbon
 - ✗ ² more than 10.5% chromium and more than 1.2% carbon
 - ✗ ₃ less than 10.5% chromium and less than 1.2% carbon
 - 4 more than 10.5% chromium and less than 1.2% carbon

Question ID : **5581011093** Status : **Answered** Chosen Option : **4**

- Q.54 In a Newtonian fluid, the shear stress:
- Ans X 1. Is inversely proportional to the strain



- 2. is directly proportional to rate of shear strain
- 🗙 3. balances pressure
- 🗙 4. balances inertia stress

Question ID : **5581011062** Status : **Answered** Chosen Option : **2**

Q.55 The flow of fluid in a straight smooth pipe becomes turbulent when the:

- Ans X 1 Reynolds number is less than 2000.
 - X 2. Reynolds number is less than 4000.
 - ✓ 3. Reynolds number is greater than 4000.
 - ✗ 4. Reynolds number is equal 2000.

Question ID : **5581011076** Status : **Answered** Chosen Option : **3**

Q.56 Dry saturated steam at a pressure of 8 bar enters a convergent nozzle. The index of isentropic expansion for dry saturated steam is 1.135. For maximum mass flow rate to occur through the nozzle, the exit pressure should be:

- Ans X 1. 5.32 bar X 2. 3.62 bar
 - × 3. 2.32 bar
 - 🖌 4. 4.62 bar

Question ID : 5581011059 Status : Not Answered

Chosen Option : --

Q.57 A pitot tube measures the:

- Ans X 1. Fluid density
 - X 2. dynamic pressure
 - ✓ 3. Fluid flow velocity
 - X 4. Fluid viscosity

Question ID : 5581011081 Status : Answered Chosen Option : 3

Q.58 Navier-Stokes equations represent:

- Ans 🗸 1. mass conservation
 - X 2. vorticity conservation
 - ✗ ₃ energy conservation
 - 🗙 4. viscosity

Question ID : 5581011082 Status : Answered Chosen Option : 3



Q.59 In an impulse turbine:

Ans 🗡 1.

The steam is expanded both in fix and moving blades continuously.

2.

The steam is expanded in nozzles only and there is a pressure drop and heat drop.

- ✗ ₃. Steam is expanded in moving blades only.
- ✗ 4. Pressure and temperature of steam remains constant.



Q.60 The pressure in a stationary water column:

- Ans 🖌 1. increases with depth.
 - X 2. varies nonlinearly with depth.
 - ✗ ₃ is constant with depth.
 - \times 4 depends on the viscosity at a depth.

Question ID : **5581011065** Status : **Answered** Chosen Option : **1**

Q.61 The multistage compression of air as compare to single stage compression:

Ans X 1. Increases work done per kg of air

X 2.

Does not improve volumetric efficiency for the given pressure ratio

X 3. Gives less uniform torque

V 4.

Improves volumetric efficiency for the given pressure ratio



Question ID : **5581011043** Status : **Answered** Chosen Option : **4**

Q.62 Which of the following devices is used to find the composition of exhaust gases from IC engines?

Ans X 1. Bomb calorimeter

- 🗙 2. Barometer
- 🗙 3. Rope dynamometer
- 🖌 4. Orsat apparatus

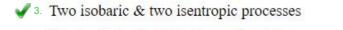
Question ID : 5581011022
Status : Answered
Chosen Option : 1

Q.63 Rankine cycle consist of:

Ans X 1. Two isothermal & two isochoric processes

X 2. Two isothermal & two isentropic processes





✗ ₄. Two isobaric & two isothermal processes

Question ID : **5581011029** Status : **Answered** Chosen Option : **2**

- **Q.64** In a LaMont boiler, the mass flow rate of water through the boiler circulation pump, compared to the rate of evaporation of water, is typically:
- Ans X 1. twenty-five times
 - X 2. forty times
 - 🖌 ^{3.} ten times
 - X 4. thirty times

Question ID : 5581011034 Status : Not Answered Chosen Option : --

- Q.65 In two-stroke engines, the type of lubrication system employed in the crankcase is the:
- Ans 🖌 1. mist lubrication system
 - X 2. wet sump lubrication system
 - ✗ ₃. dry sump lubrication system
 - ✗ ₄. splash lubrication system

Question ID : **5581011026** Status : **Answered** Chosen Option : **3**

Q.66 In an axial flow pump, the liquid enters:

- Ans X 1. radially inwards
 - X 2. radially outwards
 - ✗ ₃ tangentially through the sides
 - 4 enters and leaves the impeller axially

Question ID : **5581011089** Status : **Answered** Chosen Option : **4**

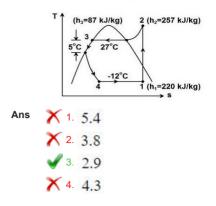
Q.67 The maximum shear stress in a shaft, of diameter 'd' subjected to torsion 'T', is given by:

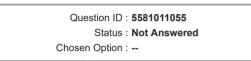
Ans 1. $16 T/\pi d^3$ 2. $64 T/\pi d^3$ 3. $8 T/\pi d^3$ 4. $32 T/\pi d^3$

> Question ID : **5581011003** Status : **Answered** Chosen Option : **1**



A vapour compression refrigeration cycle with subcooling is shown in the figure along with refrigerant enthalpy data. The specific heat of the liquid refrigerant is 5 kJ/(kg.K). What is the coefficient of performance of the cycle?





Q.69 The power available at the engine crankshaft is known as:

- Ans 🖌 1. Brake Power
 - X 2. True Power
 - X 3. Indicated Power
 - X 4. Friction Power

Question ID : **5581011017** Status : **Answered** Chosen Option : **3**

Q.70 If m_w is the mass of water changing the enthalpy from h_1 to h_2 in a boiler and L is the latent heat of steam at 100°C, then the equivalent evaporation is defined as:

Ans 1. $[m_w(h_2 - h_1)]/L$ 2. $[m_w(h_2 + h_1)]/L$ 3. $[m_w(h_2 + L)]/h_1$ 4. $(m_wh_1h_2)/L$

> Question ID : 5581011038 Status : Not Answered Chosen Option : --

- Q.71 An orifice meter is used to measure the:
- Ans 🖌 1. flow rate in a pipe
 - X 2. static pressure in the fluid
 - 🗙 3. atmospheric pressure
 - \mathbf{X} 4. flow pressure in the pipe

Question ID : **5581011079** Status : **Answered** Chosen Option : **1**

Q.72 Cavitation is a phenomenon that occurs in turbines due to:



Ans X 1 formation of a boundary layer



✓ 3. local vapour formation

X⁴ low viscous stress

Question ID : **5581011087** Status : **Answered** Chosen Option : **1**

Q.73 A Pelton turbine is a / an:

Ans 🗸 1. impulse flow turbine

X^{2.} radial flow turbine

X 3. mixed flow turbine

X 4. axial flow turbine

Question ID : **5581011085** Status : **Answered** Chosen Option : **2**

Q.74 The law that permits temperature measurement with a calibrated instrument is called the:

- Ans X 1. first law of thermodynamics
 - 2. zeroth law of thermodynamics
 - ✗ ₃ second law of thermodynamics
 - X 4. third law of thermodynamics

Question ID : **5581011013** Status : **Answered** Chosen Option : **2**

Q.75 Modified polyolester is a suitable lubricant in a refrigeration system with the refrigerant:

- Ans 🗡 1. R11
 - 🖌 2. R134a
 - × ^{3.} R245fa

Question ID : 5581011056 Status : Not Answered

Chosen Option : --

Q.76 In an IC engine, boundary lubrication is likely to occur between surfaces with relative velocity during:

Ans X 1. starting and stopping

- 2. maximum power condition
- ✗ 3. constant speed operation
- 🗙 4. idling

Question ID : **5581011025** Status : **Not Answered** Chosen Option : --

Q.77 A device used to put off fire in the furnace of the boiler when the level of the water in the boiler falls to an unsafe limit is called:





- 🗙 2. Economiser
- 🖌 3. Fusible plug
- 🗙 4. Superheater

Question ID : 5581011033 Status : Answered Chosen Option : 3

Q.78 In a draft tube at the exit of a turbine:

- Ans X 1. the kinetic energy increases
 - \mathbf{X} 2. the flow is generally laminar
 - X 3. sand particles are prevented from entering the turbine
 - 4 the cross-sectional area increases in flow direction

Question ID : **5581011086** Status : **Answered** Chosen Option : **4**

Q.79 The following data recorded during a test on oil engine:

Speed of Engine = 1000 rpm,

Load on the brake = 1000 N,

Length of brake = 750 ml,

Then brake power is:

- Ans 🗙 1. 68.55 kw
 - 🗙 2. 785.5 kw
 - 🗙 ^{3.} 55.78 kw
 - 🖌 4. 78.55 kw

Question ID : **5581011018** Status : **Not Answered** Chosen Option : --

- Q.80 Heat treatment of steel
- Ans \times 1. can be used to change the carbon percentage.

V 2.

involves heating steel to a temperature above melting point and then cooling.

Х з.

is effective when the carbon percentage is lower than 0.8%.

X 4. Cannot be used to relieve local stresses and strains.

Question ID : **5581011095** Status : **Answered** Chosen Option : **1**

- Q.81 Bernoulli's equation is used for:
- Ans X 1 laminar viscous flows
 - 🖌 2. incompressible fluid



✗ ₃ viscous flows at high speeds

✗ ₄. turbulent flow

Question ID : **5581011077** Status : **Answered** Chosen Option : **1**

Q.82 Atmospheric pressure at ground level is approximately:

Ans X ¹. 1 N/m² X ². 1 N X ³. 1 dyne/m²

✓ 4. 1 kgf/cm²

Question ID : **5581011070** Status : **Answered** Chosen Option : **1**

Q.83 In a throttling process with negligible change in the potential and kinetic energies:

- Ans 🖌 1. the enthalpy remains constant
 - \times 2. the entropy remains constant
 - ✗ ₃ the pressure remains constant
 - ✗₄ the enthalpy does not remains constant

Question ID : **5581011007** Status : **Answered** Chosen Option : **1**

Q.84 In an IC engine, combustion was found to proceed during the expansion stroke also. The reason could be:

- Ans 🗸 1. rich mixture with ignition advance
 - X 2. high calorific value of the fuel
 - ✗ ₃ weak mixture with ignition advance
 - X 4. weak mixture without ignition advance

Question ID : **5581011024** Status : **Answered** Chosen Option : **1**

Q.85 Electrolux system of refrigerant has:

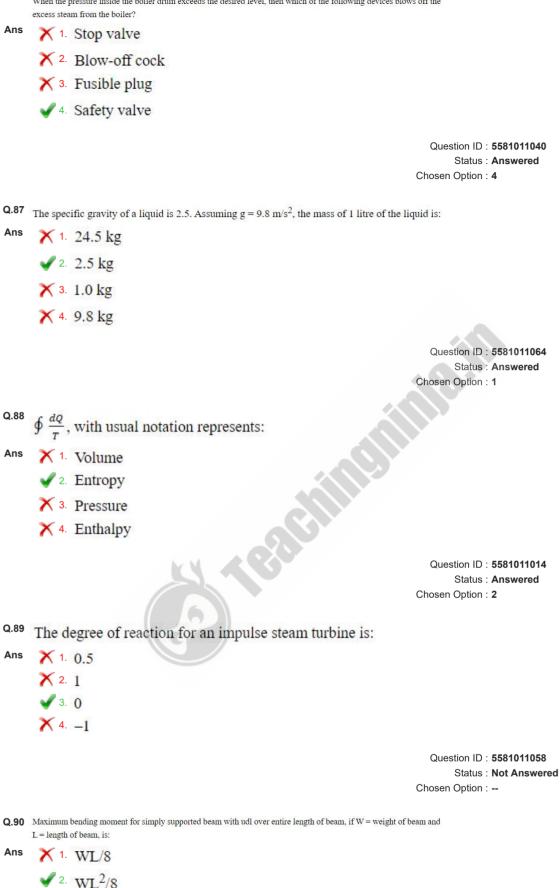
Ans 🗙 1. Only one liquid pump

- 🗙 2. Only three liquid pump
- 🖌 3. No liquid pump
- X 4. Only two liquid pump

Question ID : **5581011047** Status : **Not Answered** Chosen Option : --



When the pressure inside the boiler drum exceeds the desired level, then which of the following devices blows off the



X 3. WL/4 X 4. WI 2/4

> Questio Teachingninja.in

Q.91 The right limb of simple U-tube manometer containing mercury is open to atmosphere while the left limb is connected to a pipe in which fluid of specific gravity 0.9 is flowing. The center of the pipe is 12 cm below the level of mercury in the right limb. Find the pressure of fluid in the pipe if the difference of mercury level in two limbs is 20 cm.

Ans	× 1. 2590 N/cm ²	
	X ^{2.} 2597 N/cm ²	
	X ^{3.} 25.97 N/cm ²	
	✓ ^{4.} 2.597 N/cm ²	

Question ID : **5581011069** Status : **Answered** Chosen Option : **3**

Q.92 Which of the following devices controls the refrigerant flow in a refrigeration system as per the heat load on the evaporator?



- X 2. Evaporator
- X 3. Condenser
- X 4. Compressor

Question ID : **5581011053** Status : **Answered** Chosen Option : **1**

Q.93 The ideal cycle for which steam engine work is:

- Ans 🗙 1. Joule Cycle
 - X 2. Otto Cycle
 - ✓ 3. Rankine Cycle
 - 🗙 4. Carnot Cycle

Question ID : **5581011030** Status : **Answered** Chosen Option : **4**

- Q.94 Biggest loss in the boiler is:
- Ans 🗸 1. Dryness in flue gasses
 - \times ² Steam formation
 - X 3. Unburnt carbon
 - X 4. Moisture in fuel

Question ID : **5581011037** Status : **Answered** Chosen Option : **4**

- Q.95 The ratio of indicated thermal efficiency to the air standard efficiency is called as:
- Ans X 1. Overall efficiency
 - X 2. Relative efficiency



✓ 3. Volumetric efficiency

X ₄. Mechanical efficiency

Question ID : **5581011019** Status : **Answered** Chosen Option : **2**

Q.96 A single-cylinder, single-acting compressor has a bore *D*, stroke *L*, radius of the cylinder *R* and rotational speed *n* revolutions per second. The piston displacement of the compressor is given by:

Ans \checkmark 1. $(\pi D^2 \text{Ln})/4$ \checkmark 2. $(\pi R^2 \text{Ln})/2$ \checkmark 3. $(\pi D^2 \text{Ln})/2$ \checkmark 4. $(\pi R^2 \text{Ln})/4$

> Question ID : **5581011044** Status : **Not Answered** Chosen Option : --

Q.97 The property enthalpy is defined as the:

Ans X 1. difference of the pressure and specific volume

2 product of the pressure and specific volume

V 3.

sum of the internal energy and the product of the pressure and specific volume

✗ ₄ sum of the pressure and specific volume

Question ID : **5581011009** Status : **Answered** Chosen Option : **3**

Q.98 A water heating heat pump abstracting 10 kW of heat from the atmosphere requires 2 kW of power input. The COP of the heat pump is:

Ans X 1. 4 X 2. 7 √ 3. 5 X 4. 6

> Question ID : **5581011015** Status : **Answered** Chosen Option : **3**

Q.99 Which boiler has a relatively large storage of steam and water?

- Ans X 1 Simple vertical boiler
 - ✓^{2.} Lancashire boiler
 - × 3. Cochran boiler
 - 🗡 4. Cornish boiler

Question ID : **5581011036** Status : **Not Answered** Chosen Option : --



Q.100 The pressure of steam produced in a supercritical boiler is in the range of:

- Ans 🖌 1. 200 bar to 240 bar
 - X 2. 100 bar to 130 bar
 - X 3. 180 bar to 190 bar
 - 🗡 4. 150 bar to 180 bar

Question ID : 5581011039 Status : Not Answered Chosen Option : --

