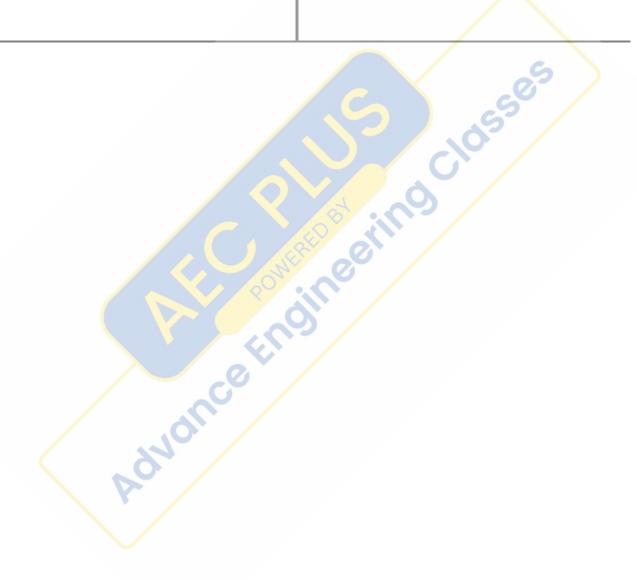
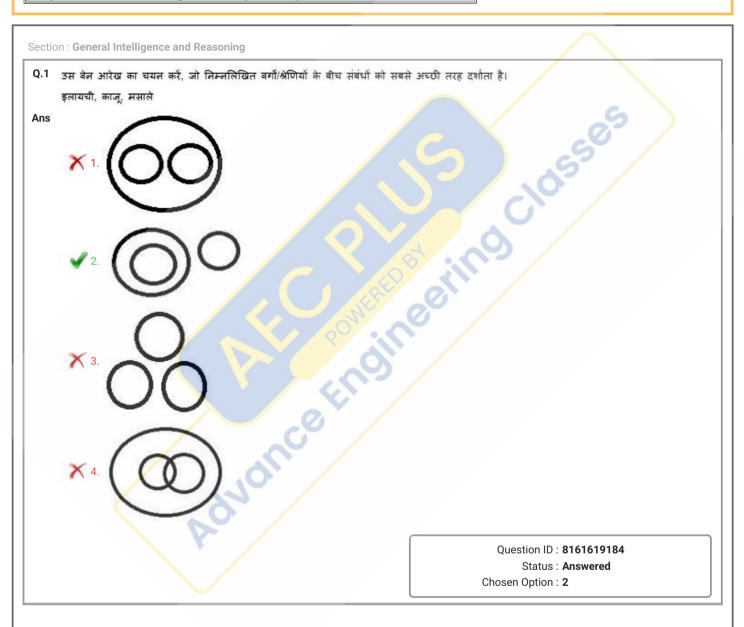
## SSC JE ME

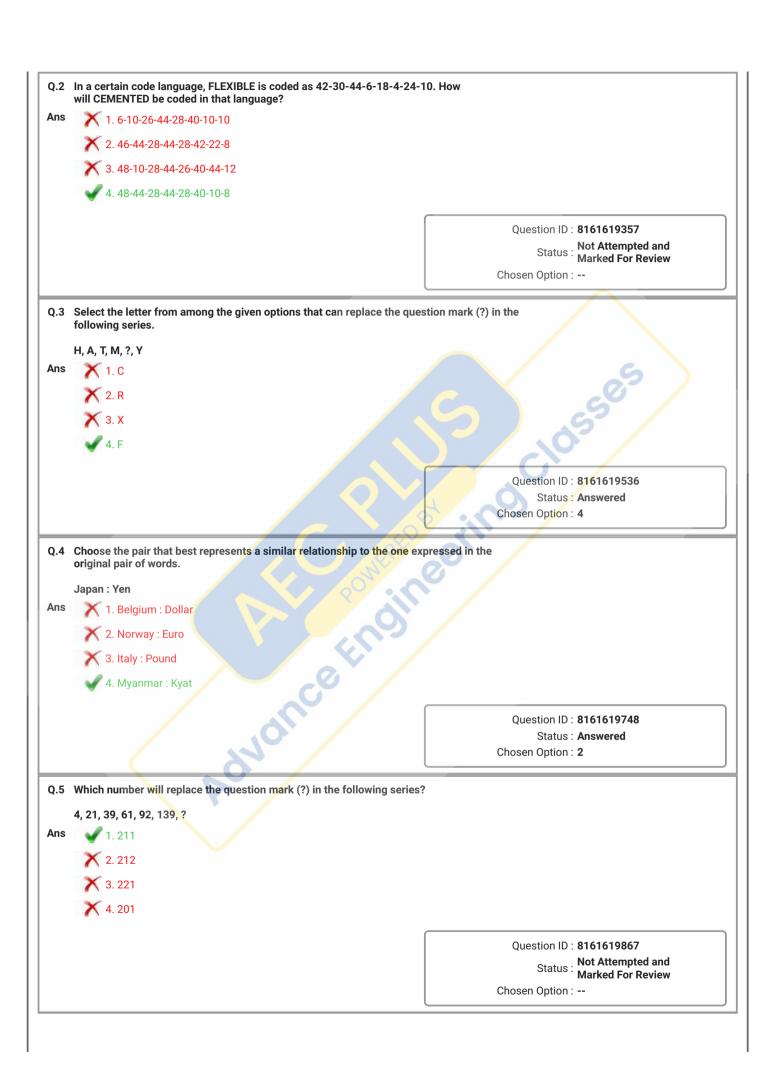
## Previous Year Paper (22nd March 2021 Morning)

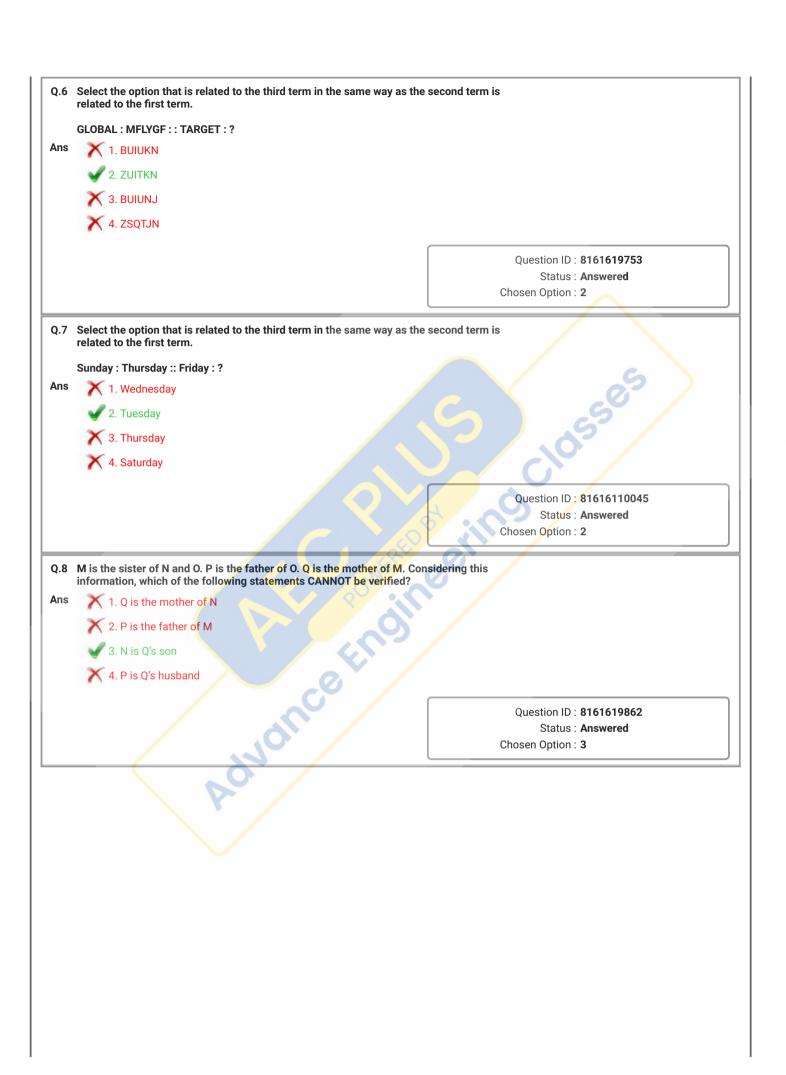


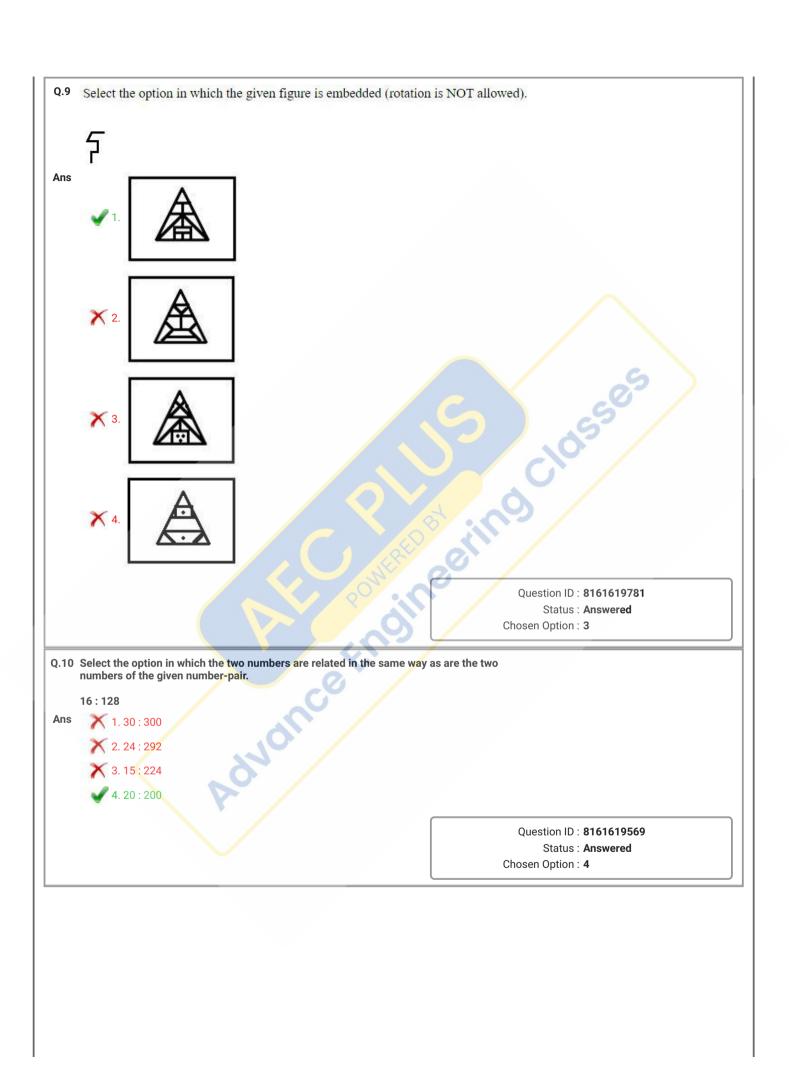
## Junior Engineer (Civil, Mechanical, Electrical and Quantity Surveying & Contracts) Examination, 2020 (Paper-I)

	<u> </u>
Roll Number	
Candidate Name	
Venue Name	iON Digital Zone iDZ
Exam Date	22/03/2021
Exam Time	10:00 AM - 12:00 PM
Subject	Junior Engineering Mechanical



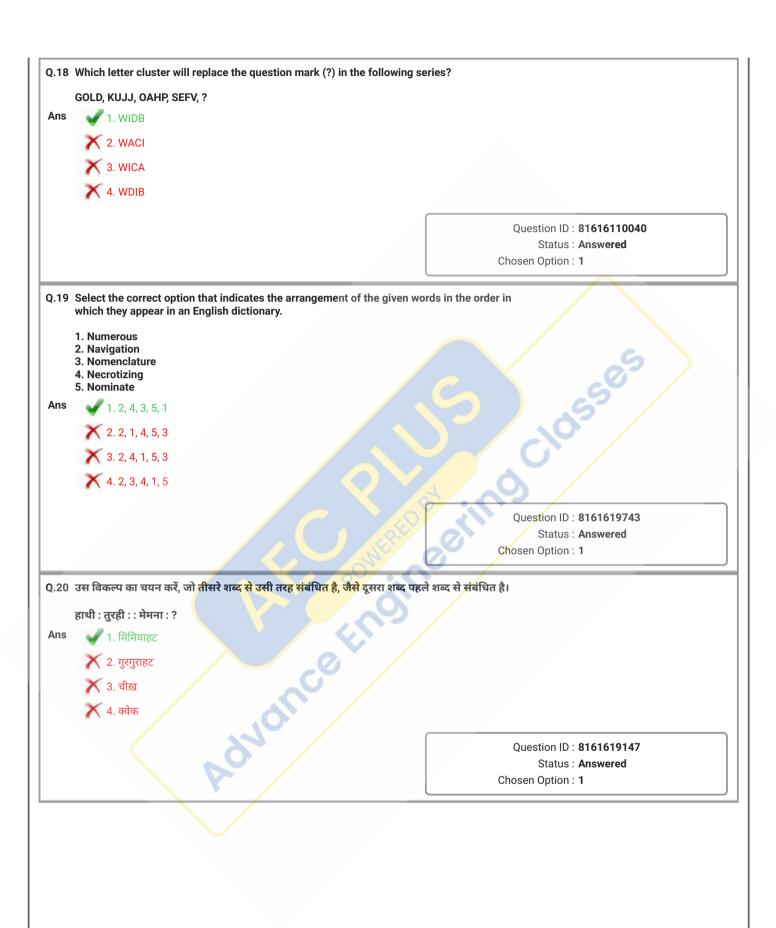


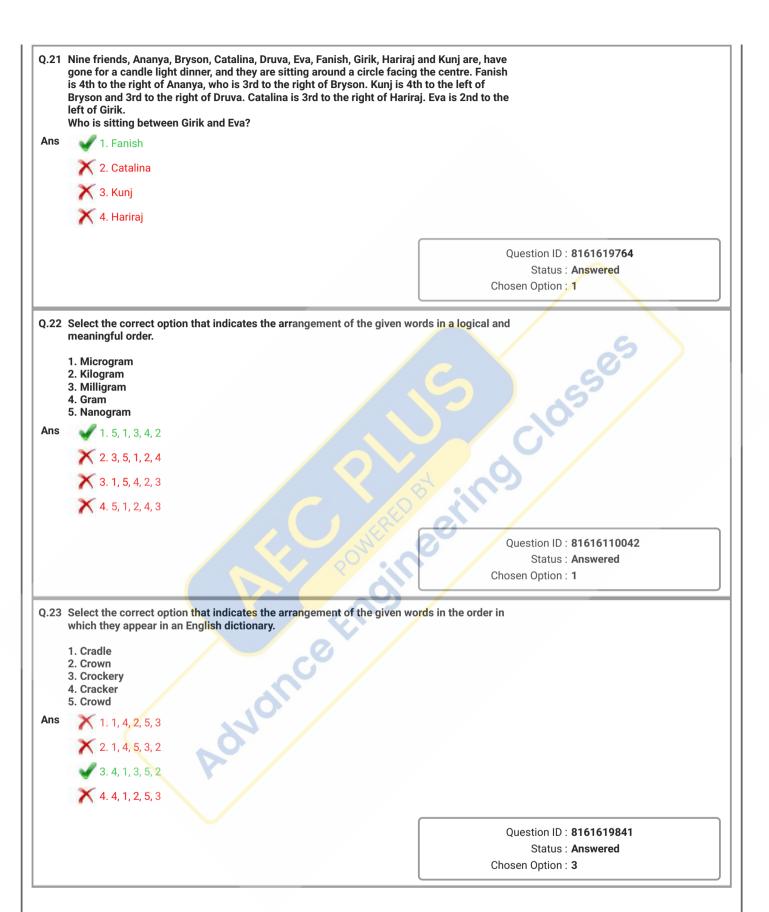


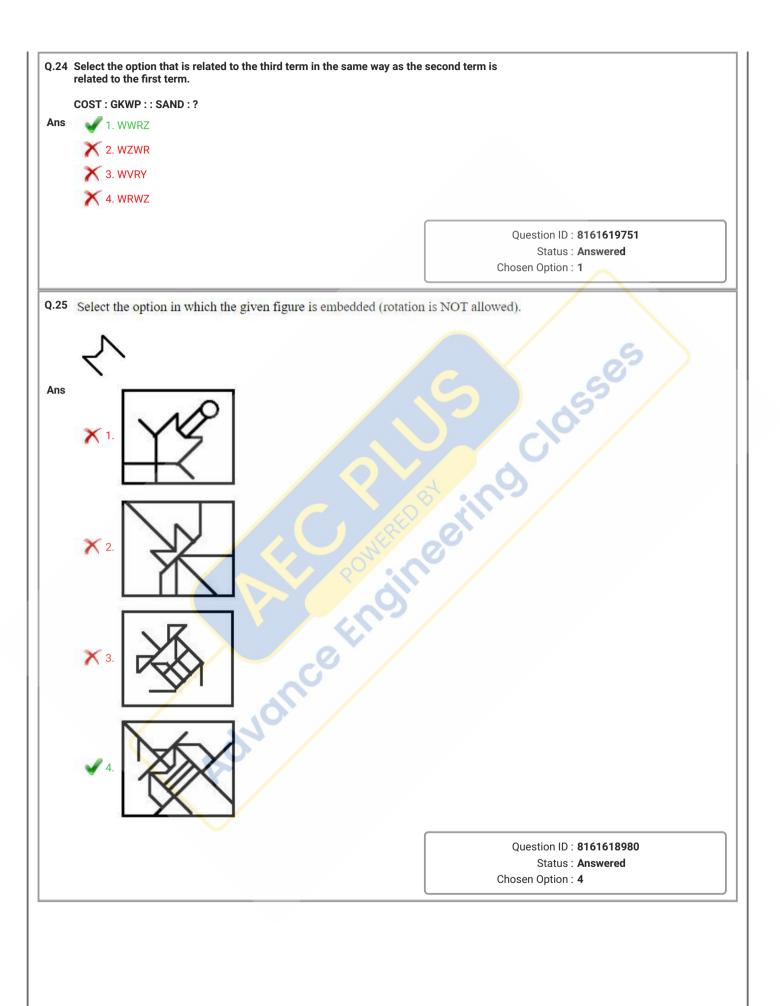


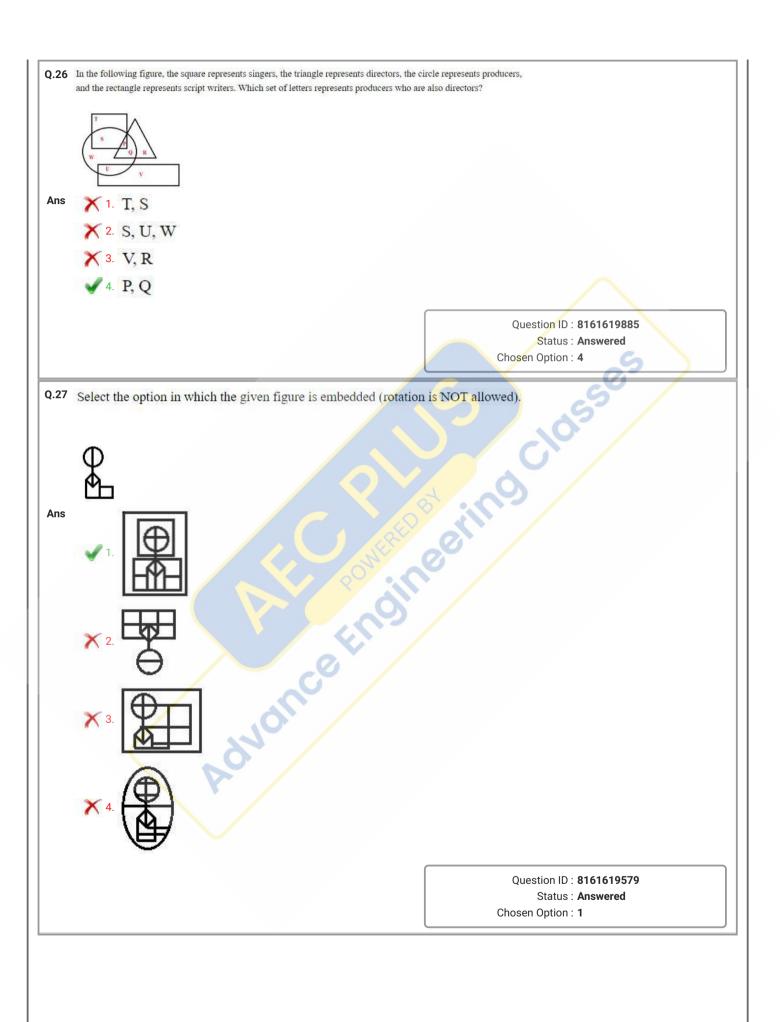
Q.11 Choose the pair that best represents a similar relationship to the one expressed in the original pair of words. Frequency: Hertz Ans X 1. Resistance : Kelvin 2. Energy: Newton 3. Volume: Square metre 4. Heat : Joule Question ID: 8161619149 Status: Answered Chosen Option: 4 Q.12 Which letter cluster will replace the question mark (?) in the following series? CLAP, BNXT, APUX, ZRRB, ?, XVLJ Ans X 1. YSNF Question ID: 8161619739 Status: Answered Chosen Option: 3 Q.13 Select the option that is correct for the bracketed letters with respect to their inclusion in the given series. F, K, H, F, L, A, (S), V, Z, Q, J, (L) 1. Both the bracketed letters are correct. 2. The first bracketed letter is incorrect and the second bracketed letter is correct. 3. The first bracketed letter is correct and the second bracketed letter is incorrect. 4. Both the bracketed letters are incorrect Question ID: 8161619737 Status : Not Attempted and Marked For Review Chosen Option: --Q.14 Select the option that is related to the third term in the same way as the second term is related to the first term. SOLUTE: UNNTVD:: CLUTCH:? Ans 💢 1. BNTVBJ 2. EKWSEG 3. BNWSBJ X 4. EKTVEG Question ID: 81616110052 Status: Answered Chosen Option: 2

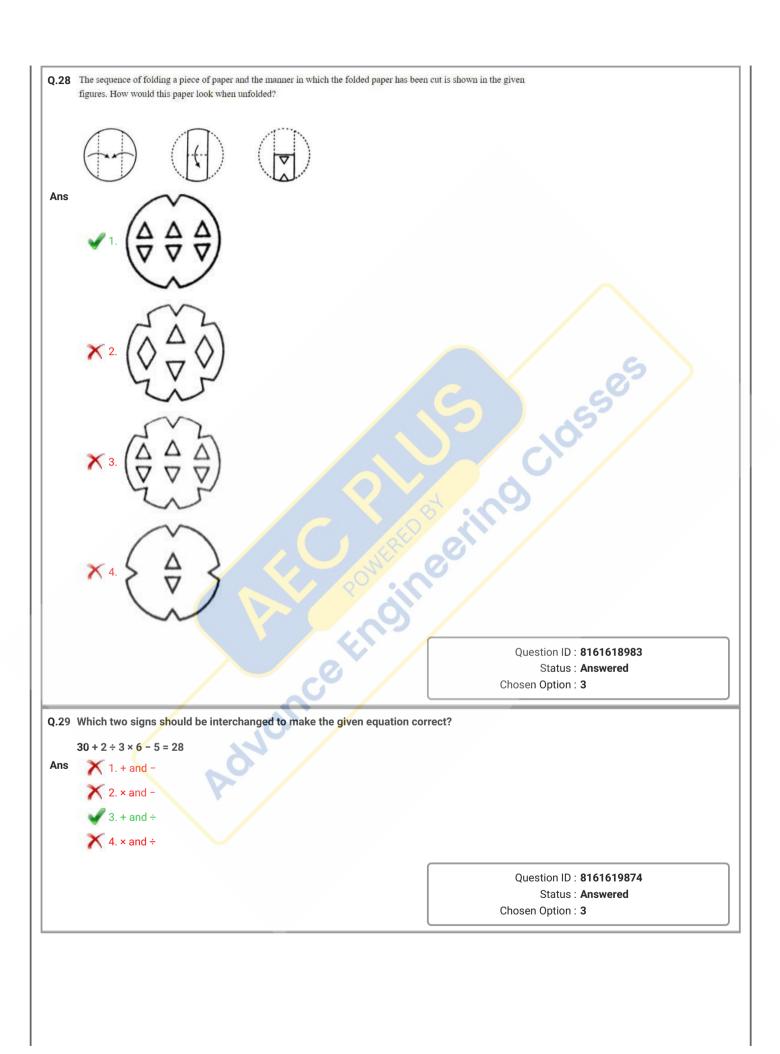
Q.15 Arjun walks 22 metres southward. Then turning to his right, he walks 22 metres to reach an ATM. Then turning to his left, he walks 20 metres to reach a bookstall. Again, he turns to his left and walks 22 metres to reach his office. How far is he from his starting point? Ans X 2. 38 m X 4. 44 m Question ID: 8161619761 Status: Answered Chosen Option: 3 Q.16 A cube is made by folding the given sheet. In the cube so formed, which of the following pairs of letters will be on opposite sides? √ 1. V and Z X 2. T and Z X 3. U and W X 4. T and X Question ID: 8161618978 Status: Answered Chosen Option: 1 Q.17 Read the given statements and conclusions carefully. Assuming that the information given in the statements is true, even if it appears to be at variance with commonly known facts, decide which of the given conclusions logically follow(s) from the statements. Statements: 1. Some actresses are hair-stylists. 2. All hair-stylists are anchors. **Conclusions:** I. Some hair-stylists are actresses. II. Some anchors are hair-stylists. 1. Both conclusions I and II follow 2. Only conclusion I follows 3. Neither conclusion I nor II follows 4. Only conclusion II follows Question ID: 8161619358 Status: Answered Chosen Option: 1

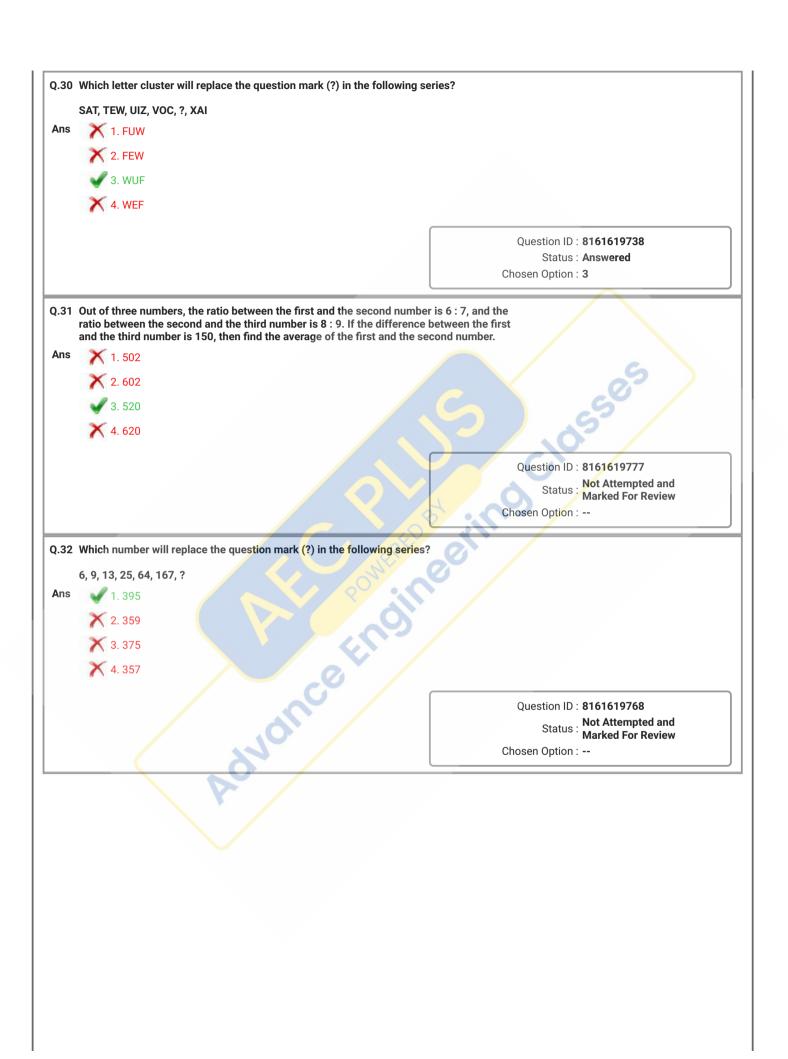




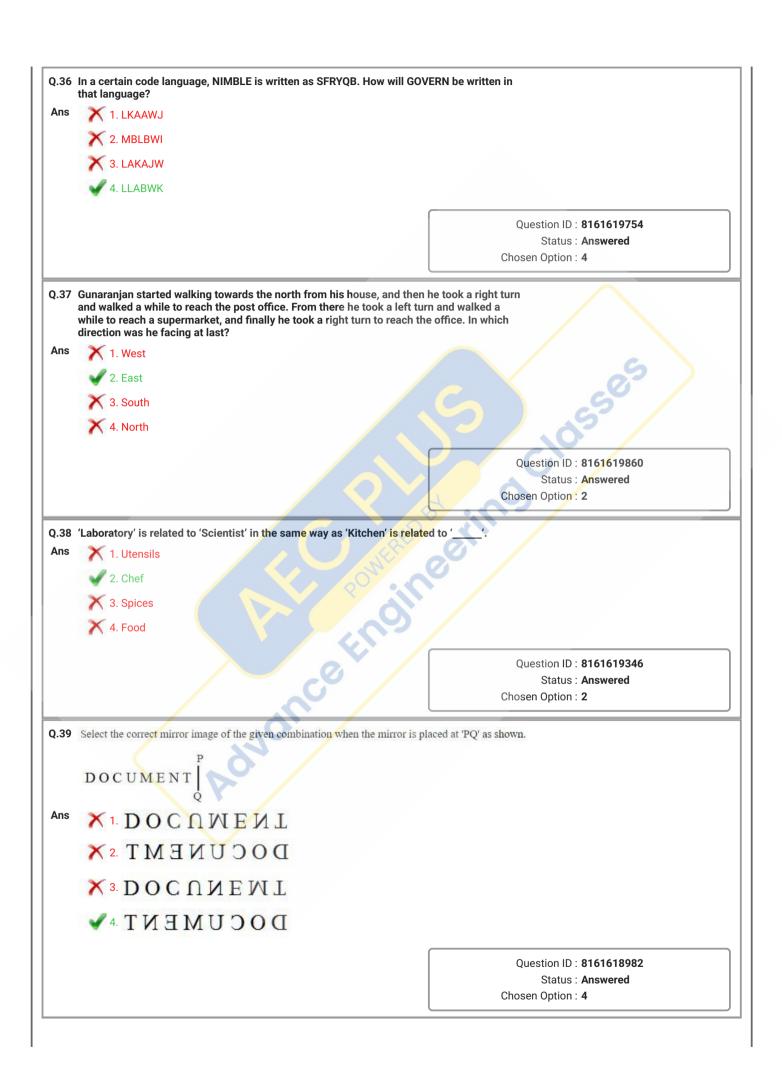


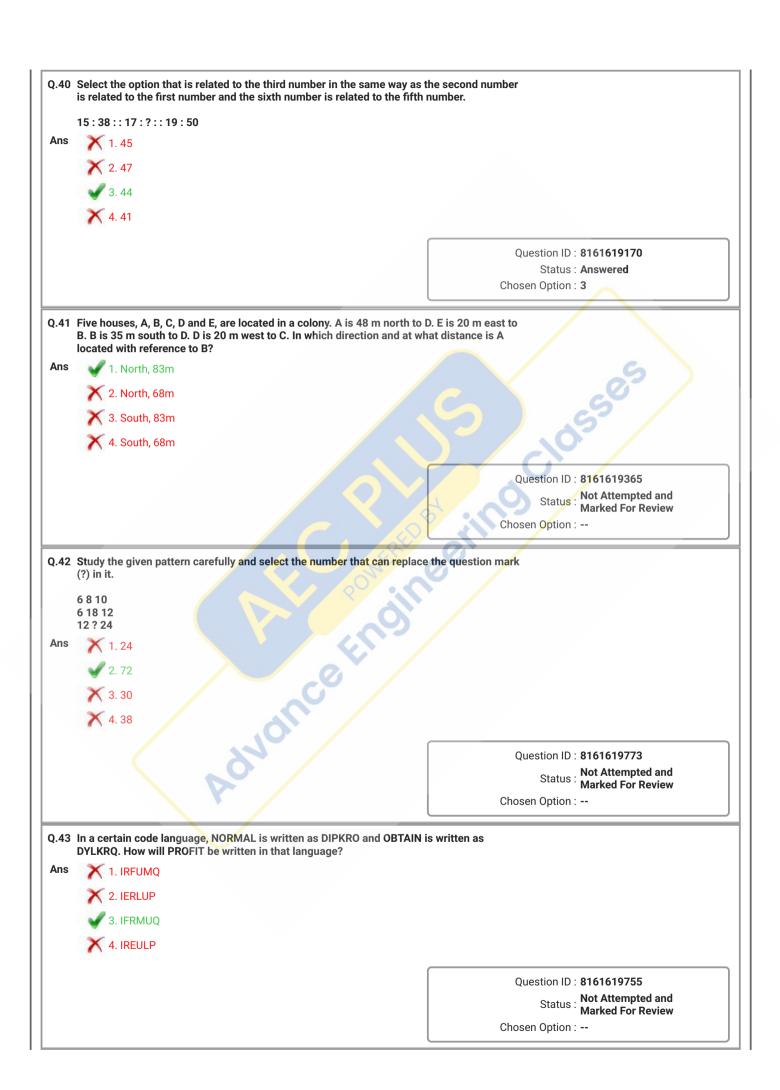


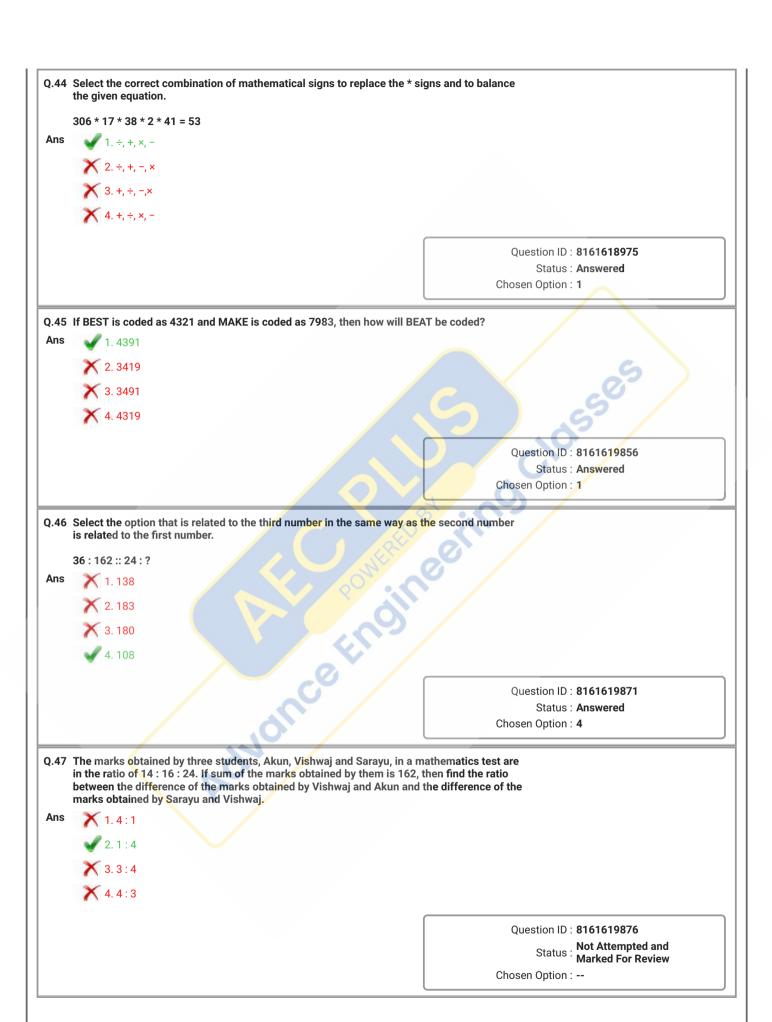


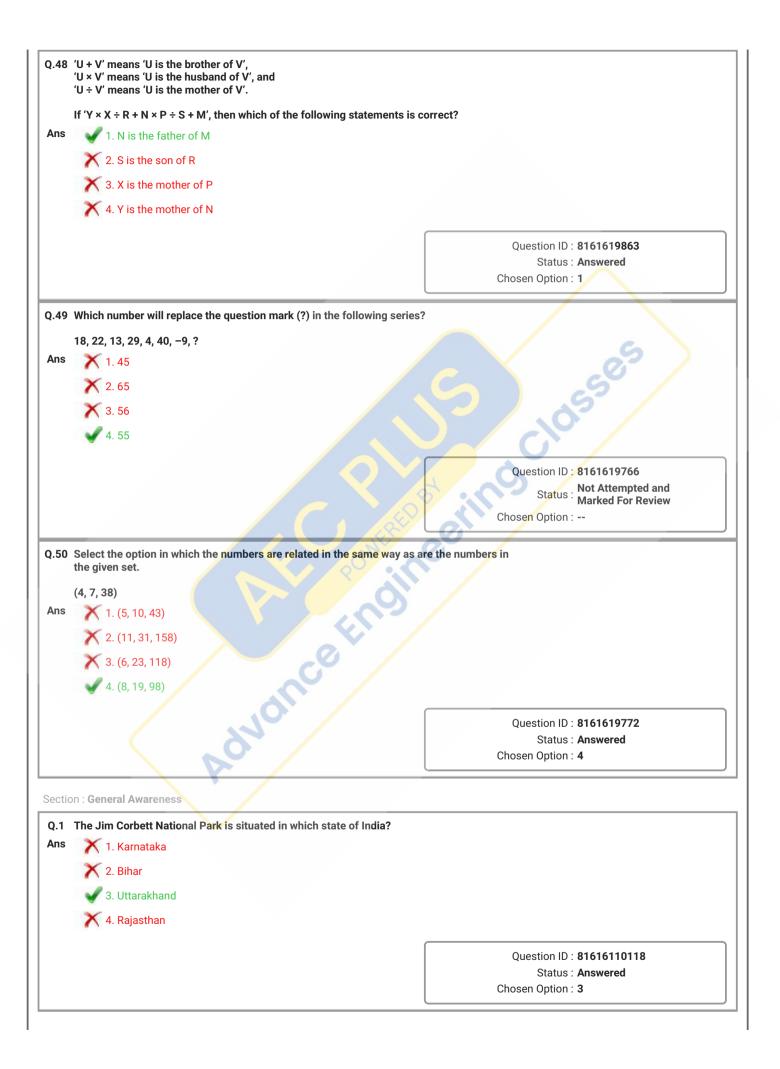


Q.33 Two statements are given, followed by four conclusions numbered I, II, III, IV. Assuming that the information given in the statements is true, even if it appears to be at variance with commonly known facts, decide which of the given conclusions logically follow(s) from the statements. Statements: 1. No watch is a cell. 2. All cells are pendulums. Conclusions: I. No watch is a pendulum. II. No pendulum is a watch. III. Some pendulums are cells. IV. All pendulums are cells. Ans 1. Both conclusions I and IV follow 2. Both conclusions I and II follow 3. Only conclusion III follows 4. Only conclusion I follows Question ID: 81616110059 Status: Answered Chosen Option: 3 Q.34 उस शब्द-युग्म का चयन कीजिए जिसके शब्दों के मध्य वही संबंध है जो <mark>दिए गए शब्द-युग्म के शब्दों के</mark> मध्य है। फैलाना : दबाना Ans 1. पवित्र : अपवित्र 2. सौम्य : मृदु 3. अनिच्छुक : संकोची 🗙 ४. शांत : दयालु Question ID: 8161619850 Status: Answered Chosen Option: 1 Q.35 Select the correct option that indicates the arrangement of the given words in a logical and meaningful order. 1. Muscat 2. Royal Opera House 3. World 4. Oman 5. Asia **X** 1. 3, 2, 4, 1, 5 Ans 2. 3, 4, 5, 1, 2 3. 3, 5, 4, 1, 2 4. 3, 5, 1, 4, 2 Question ID: 8161619844 Status: Answered Chosen Option: 3









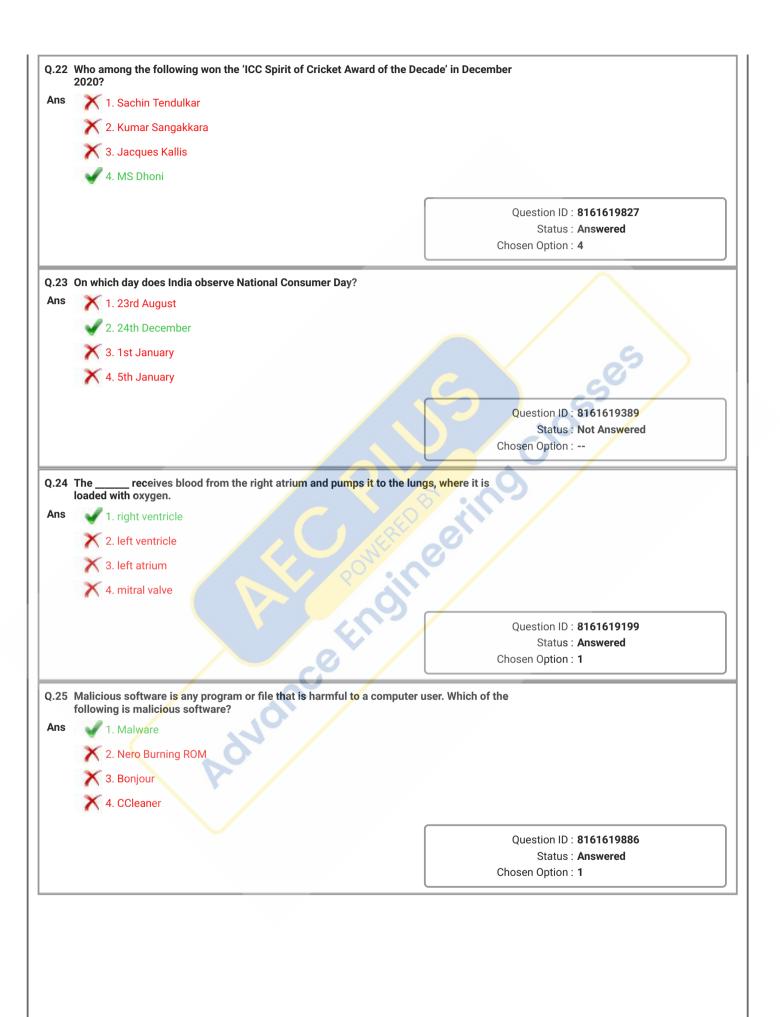
	√ 3. Jyoti Basu  ✓ 4. Aruna Asaf Ali	Question ID : <b>8161619228</b>
	4. Aruna Asaf Ali	Ouestion ID : <b>8161619228</b>
		Question ID : 8161619228
		Question in . 0101019220
		Status: Not Answered
		Chosen Option :
.3 Zika	a virus was first discovered in 1947 and is nam	ned after the Zika in Uganda.
	1. desert	
>	2. river	
	3. hill	
	4. forest	5
	4. 101631	
		Question ID : 8161619001
		Status: Not Answered
		Chosen Option :
.4 Arti	cle 300A of the Constitution of India deals wit	h:
ns 💙	1. financial emergency	
	2. all-India services	
	3. right to education	CHILD CHILD
	4. right to property	
	4. right to property	R
		Question ID: 8161619931
		Status : Answered
		Chosen Option : 4

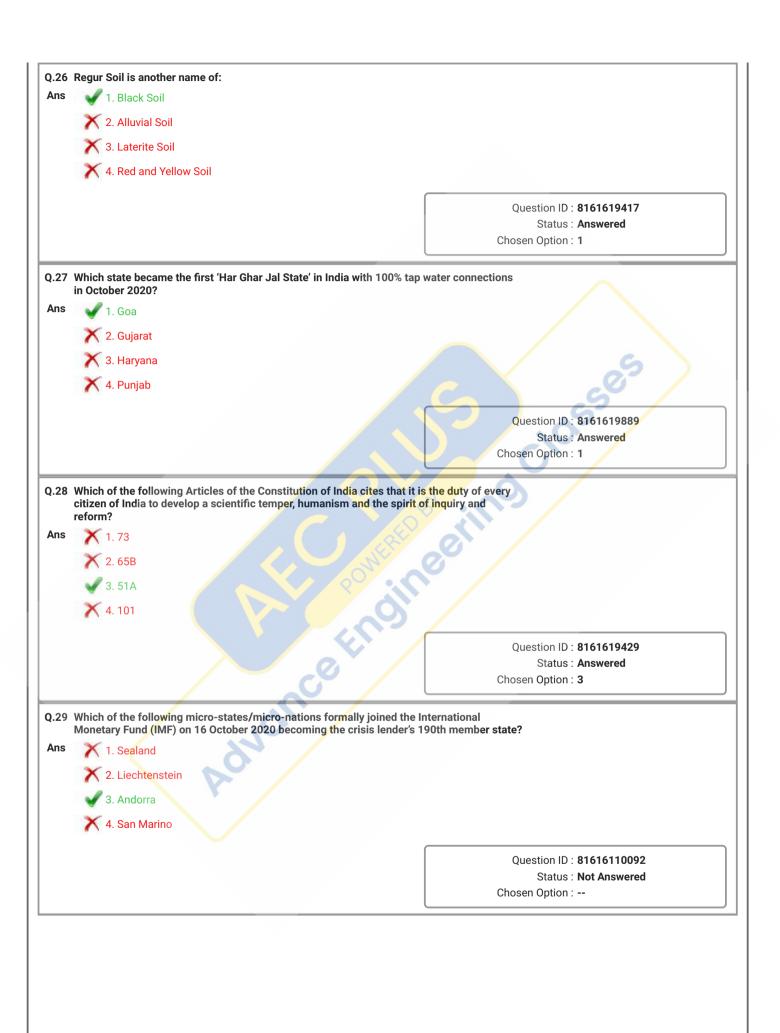
ıs	🔀 1. भुजाओं की मांसपेशियां	
	🗸 2. नेत्र में पुतली (परितारिका) की मांसपेशियां	
	🗙 3. हृदय संबंधी मांसपेशियां	
	🗙 4. पैरों की मांसपेशियां	
		Question ID: 8161619802
		Status : <b>Answered</b> Chosen Option : <b>2</b>
).7	A safety seat belt in a car exerts a force on our body to:	
ns	1. facilitate some kind of backward motion	
	2. make our forward motion faster	
	X 3. rule out any kind of backward motion	
	4. make our forward motion slower	05
		Outstine ID 0044440044
		Question ID : 8161619211
		Status : Answered
	Ostriches were found in India during the Palaeolithic period. La shells were found at  1. Inamgaon 2. Patne	Status: Answered Chosen Option: 4  rge quantities of ostrich egg
	shells were found at  1. Inamgaon  2. Patne  3. Patna	Chosen Option : 4
	shells were found at  1. Inamgaon  2. Patne	Chosen Option : 4
	shells were found at  1. Inamgaon  2. Patne  3. Patna	Chosen Option : 4  rge quantities of ostrich egg  Question ID : 8161619422
	shells were found at  1. Inamgaon  2. Patne  3. Patna	Chosen Option : 4  rge quantities of ostrich egg  Question ID : 8161619422 Status : Answered
	shells were found at  1. Inamgaon 2. Patne 3. Patna 4. Chirand	Question ID: 8161619422 Status: Answered Chosen Option: 2
Ans	shells were found at  1. Inamgaon 2. Patne 3. Patna 4. Chirand  Which of the following Committees is associated with the 'Ecol	Question ID: 8161619422 Status: Answered Chosen Option: 2
Ans	shells were found at  1. Inamgaon 2. Patne 3. Patna 4. Chirand  Which of the following Committees is associated with the 'Ecol 1. Gadgil Committee	Question ID: 8161619422 Status: Answered Chosen Option: 2
Ans	shells were found at  1. Inamgaon 2. Patne 3. Patna 4. Chirand  Which of the following Committees is associated with the 'Ecol 1. Gadgil Committee 2. Sarkaria Committee	Question ID: 8161619422 Status: Answered Chosen Option: 2
Ans	shells were found at  1. Inamgaon 2. Patne 3. Patna 4. Chirand  Which of the following Committees is associated with the 'Ecol 1. Gadgil Committee 2. Sarkaria Committee	Question ID: 8161619422 Status: Answered Chosen Option: 2
Ans	shells were found at  1. Inamgaon 2. Patne 3. Patna 4. Chirand  Which of the following Committees is associated with the 'Ecol 1. Gadgil Committee	Question ID: 8161619422 Status: Answered Chosen Option: 2
Q.9	shells were found at  1. Inamgaon 2. Patne 3. Patna 4. Chirand  Which of the following Committees is associated with the 'Ecol 1. Gadgil Committee 2. Sarkaria Committee	Question ID: 8161619422 Status: Answered Chosen Option: 2  ogy of Western Ghats'?
Q.8 Ans	shells were found at  1. Inamgaon 2. Patne 3. Patna 4. Chirand  Which of the following Committees is associated with the 'Ecol 1. Gadgil Committee 2. Sarkaria Committee	Question ID: 8161619422 Status: Answered Chosen Option: 2

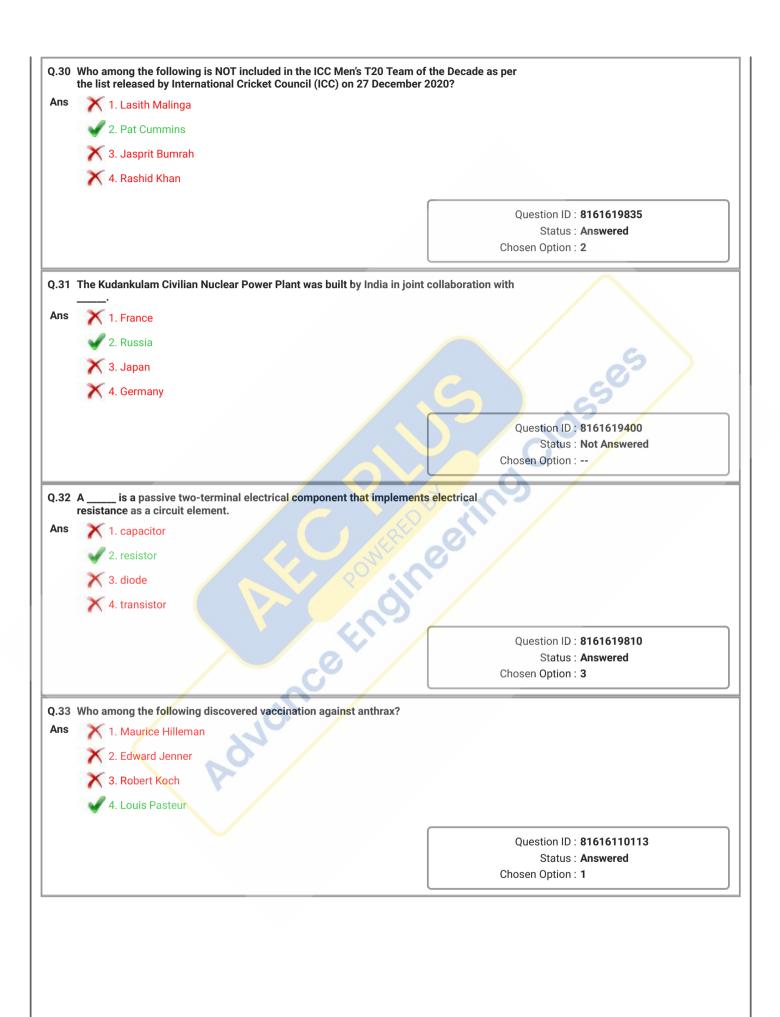
s	1. Tripuri	
	2. Calcutta	
	X 3. Jaipur	
	X 4. Haripura	
		Question ID : <b>8161619425</b>
		Status : <b>Answered</b> Chosen Option : <b>2</b>
		Chosen Option . 2
.11	जब मिश्रण में भारी घटक पानी में मिलाने के बाद नीचे बैठ जाता है, तो इस !	प्रक्रिया को क्या कहा जाता है?
ns	🔀 1. छानना (sieving)	
	🗙 2. ध्रेशिंग (threshing)	
	🗙 3. सूत्रण (yarning)	G
	✓ 4. अवसादन (sedimentation)	
	<u> </u>	5
		Question ID : 8161619901
		Status : Answered Chosen Option : 4
		Chosen Option . 4
Ans	1. bromine 2. fluorine 3. chlorine	THE CONTRACTOR OF THE PARTY OF
	X 4. iodine	
		Question ID : 8161619898
		Status : Answered
	0,	Chosen Option : 3
.13	Who is the Visitor of the Pondicherry University?	
ns	X 1. Lt. Governor of Puducherry	
	2. Vice President of India	
	3. President of India	
	4. Prime Minister of India	
	4. Finite Minuscei Of Hidia	
		Question ID : 8161619232
		Status : Answered
		Chosen Option : 1

ıs	X 1. Thar Desert	
	× 2. Himalayas	
	3. Western Ghats	
	X 4. Eastern Ghats	
	in Edition State	
		Question ID: 8161619202
		Status : <b>Not Answered</b> Chosen Option :
		Chosen option
15	As per the Indian Minerals Yearbook 2015, which sta	ite is the largest producer of mica in
ns	India?  1. Odisha	
113		
	2. Uttar Pradesh	6
	X 3. Telangana	
	4. Andhra Pradesh	25
		Question ID: <b>81616110115</b>
		Status: Not Answered
		21 2 2
_		Chosen Option :
	The Consumer Price Index or CPI is an index used to	- A
	➤ 1. forex	
	1. forex 2. GDP growth	
	1. forex 2. GDP growth 3. Income tax	
	1. forex 2. GDP growth	
	1. forex 2. GDP growth 3. Income tax	
	1. forex 2. GDP growth 3. Income tax	Question ID: 8161619394 Status: Answered
	1. forex 2. GDP growth 3. Income tax	Question ID: 8161619394
ns	1. forex 2. GDP growth 3. Income tax	Question ID: 8161619394 Status: Answered Chosen Option: 4
.17	1. forex 2. GDP growth 3. Income tax 4. retail inflation	Question ID: 8161619394 Status: Answered Chosen Option: 4
.17	1. forex 2. GDP growth 3. Income tax 4. retail inflation  Which of the following is a cause of pollution of wate 1. Dead aquatic plants	Question ID: 8161619394 Status: Answered Chosen Option: 4
.17	1. forex 2. GDP growth 3. Income tax 4. retail inflation  Which of the following is a cause of pollution of wate 1. Dead aquatic plants 2. Deforestation	Question ID: 8161619394 Status: Answered Chosen Option: 4
.17	1. forex 2. GDP growth 3. Income tax 4. retail inflation  Which of the following is a cause of pollution of wate 1. Dead aquatic plants 2. Deforestation 3. Dead aquatic animals	Question ID: 8161619394 Status: Answered Chosen Option: 4
.17	1. forex 2. GDP growth 3. Income tax 4. retail inflation  Which of the following is a cause of pollution of wate 1. Dead aquatic plants 2. Deforestation	Question ID: 8161619394 Status: Answered Chosen Option: 4
.17	1. forex 2. GDP growth 3. Income tax 4. retail inflation  Which of the following is a cause of pollution of wate 1. Dead aquatic plants 2. Deforestation 3. Dead aquatic animals	Question ID: 8161619394 Status: Answered Chosen Option: 4
Ans	1. forex 2. GDP growth 3. Income tax 4. retail inflation  Which of the following is a cause of pollution of wate 1. Dead aquatic plants 2. Deforestation 3. Dead aquatic animals	Question ID : 8161619394 Status : Answered Chosen Option : 4

<ul><li>2. Bihar</li><li>3. Odisha</li><li>4. Rajasthan</li></ul>	
- va	
- va	
A. Raiastnan	
	Question ID: 8161619390
	Status: Not Answered
	Chosen Option :
2020, the Council of Scientific and Industrial Research (CSIR) a accessfully ran trials of India's first Hydrogen Fuel Cell (HFC) pro digenously developed fuel cell stack at CSIR-National Chemica	ototype car running on an
🗶 1. Delhi	
🗶 2. Chandigarh	5
3. Pune	-0"
	65
	Question ID: 8161619614
	Status : Answered Chosen Option : 1
	Chosen Option . 1
2. West Bengal 3. Assam 4. Nagaland  andhiji started his famous Dandi March from: 1. Sevagram Ashram	Question ID : 8161619421 Status : Answered Chosen Option : 3
Z. Sabarmati Ashram	
3. Porbandar House	
X 4. Agra Fort	
	Question ID : <b>8161619623</b>
	Status : Answered
	Chosen Option : 2
i a dad i	ccessfully ran trials of India's first Hydrogen Fuel Cell (HFC) proligenously developed fuel cell stack at CSIR-National Chemical  1. Delhi  2. Chandigarh 3. Pune  4. Hyderabad  th which of the following states does Tripura share a common  1. Arunachal Pradesh  2. West Bengal 3. Assam  4. Nagaland







S	1. Odisha	
	× 2. Assam	
	X 3. Uttarakhand	
	× 4. Bihar	
	4. Billai	
		Question ID: 8161619215
		Status : Answered
		Chosen Option : 1
.35	A simple pendulum consists of a small metallic ball rigid stand by a thread. The metallic ball is called the	or a piece of stone suspended from a e of the pendulum.
ns	X 1. hinge	
	✓ 2. bob	
	<b>★</b> 3. knob	
	× 4. head	
	4. neau	5
		Question ID: 81616110103
		Question ib. 81010110105
		Status : Answered
.36	Which of the following is NOT necessarily a part of a microscope?	Status : Answered Chosen Option : 2
	Which of the following is NOT necessarily a part of a microscope?  1. Mirror 2. Objective lens 3. Eye-piece 4. Camera	Status : Answered Chosen Option : 2
	microscope?  1. Mirror  2. Objective lens  3. Eye-piece	Status : Answered Chosen Option : 2  a school laboratory compound
	microscope?  1. Mirror  2. Objective lens  3. Eye-piece	Status : Answered Chosen Option : 2  a school laboratory compound
	microscope?  1. Mirror  2. Objective lens  3. Eye-piece	Status : Answered Chosen Option : 2  school laboratory compound  Question ID : 8161619010
ns	microscope?  1. Mirror  2. Objective lens  3. Eye-piece  4. Camera  With reference to computers and the internet, which	Chosen Option: 2  Question ID: 8161619010 Status: Answered Chosen Option: 4
Ans	microscope?  1. Mirror  2. Objective lens  3. Eye-piece  4. Camera  With reference to computers and the internet, which but actually produces harmful results?	Chosen Option: 2  Question ID: 8161619010 Status: Answered Chosen Option: 4
Ans	microscope?  1. Mirror  2. Objective lens  3. Eye-piece  4. Camera  With reference to computers and the internet, which but actually produces harmful results?  1. Worm	Chosen Option: 2  Question ID: 8161619010 Status: Answered Chosen Option: 4
Ans	microscope?  1. Mirror  2. Objective lens  3. Eye-piece  4. Camera  With reference to computers and the internet, which but actually produces harmful results?  1. Worm  2. Trojan horse	Chosen Option: 2  Question ID: 8161619010 Status: Answered Chosen Option: 4
.37	microscope?  1. Mirror  2. Objective lens  3. Eye-piece  4. Camera  With reference to computers and the internet, which but actually produces harmful results?  1. Worm  2. Trojan horse  3. Patch	Chosen Option: 2  Question ID: 8161619010 Status: Answered Chosen Option: 4
.37	microscope?  1. Mirror  2. Objective lens  3. Eye-piece  4. Camera  With reference to computers and the internet, which but actually produces harmful results?  1. Worm  2. Trojan horse	Chosen Option: 2  Question ID: 8161619010 Status: Answered Chosen Option: 4
	microscope?  1. Mirror  2. Objective lens  3. Eye-piece  4. Camera  With reference to computers and the internet, which but actually produces harmful results?  1. Worm  2. Trojan horse  3. Patch	Status: Answered Chosen Option: 2  Question ID: 8161619010 Status: Answered Chosen Option: 4  of the following appears to be harmless
Ans	microscope?  1. Mirror  2. Objective lens  3. Eye-piece  4. Camera  With reference to computers and the internet, which but actually produces harmful results?  1. Worm  2. Trojan horse  3. Patch	Chosen Option: 2  Question ID: 8161619010 Status: Answered Chosen Option: 4

	<b>X</b> 1. 47	
	2.38	
	3.49	
	4.42	
		Question ID : <b>8161619607</b> Status : <b>Answered</b>
		Chosen Option : 4
).39 <i>A</i>	As of December 2020, Neiphiu Rio is the Chief Minister of	
Ans	1. Sikkim	
	2. Nagaland	
	3. Arunachal Pradesh	
	× 4. Manipur	5
	4. Manipai	60
		Question ID : <b>8161619430</b>
		Status : Answered Chosen Option : 2
		Silver Land
	Which of the following is NOT a type of rock?	
Ans	X 1. Igneous	
	- 15 T	
	× 2. Metamorphic	
	2. Metamorphic 3. Ox-bow	Ocillia
	2. Metamorphic 3. Ox-bow 4. Sedimentary	eetins
	2. Metamorphic 3. Ox-bow 4. Sedimentary	
		Question ID : <b>8161619020</b> Status : <b>Answered</b>
		Question ID: 8161619020
		Question ID : 8161619020 Status : Answered
Q.41 V		Question ID : 8161619020 Status : Answered
Q.41 V		Question ID : 8161619020 Status : Answered
Q.41 V		Question ID : 8161619020 Status : Answered
Q.41 V		Question ID : 8161619020 Status : Answered
Q.41 V		Question ID : 8161619020 Status : Answered
	Which of the following is NOT a noble gas?	Question ID : 8161619020 Status : Answered
Q.41 V		Question ID : 8161619020 Status : Answered Chosen Option : 3

	2. a parabola	
	3. a straight line passing through the origin	
	4. a straight line parallel to the time axis	
		Question ID: 8161619014 Status: Answered Chosen Option: 3
.43	Which of the following Sultanats was ruled by the Nizam Sha	ahi Dynasty?
ns	X 1. Golconda	
	2. Ahmednagar	
	X 3. Bijapur	
	X 4. Berar	
		Ougotion ID: 0161610626
		Question ID : 8161619626 Status : Not Answered
	Union Budget 2020-21 allocated crore for the overall t  1. ₹69,000  2. ₹35,000  3. ₹75,000	Status : Not Answered Chosen Option :
	<ul><li>1. ₹69,000</li><li>2. ₹35,000</li></ul>	Status : Not Answered Chosen Option :
	<ul><li>1. ₹69,000</li><li>2. ₹35,000</li><li>3. ₹75,000</li></ul>	Status: Not Answered Chosen Option:  healthcare sector.  Question ID: 8161619196
.45	1. ₹69,000  2. ₹35,000  3. ₹75,000  4. ₹82,000  The National Education Policy 2020 has set the target to inci	Chosen Option :  Question ID : 8161619196 Status : Answered Chosen Option : 3
.45	1. ₹69,000  2. ₹35,000  3. ₹75,000  4. ₹82,000  The National Education Policy 2020 has set the target to increducation sector to reach per cent of Gross Domestic  1. 8	Status: Not Answered Chosen Option:  Question ID: 8161619196 Status: Answered Chosen Option: 3
.45	1. ₹69,000  2. ₹35,000  3. ₹75,000  4. ₹82,000  The National Education Policy 2020 has set the target to increducation sector to reach per cent of Gross Domestic  1. 8	Chosen Option :  Question ID : 8161619196 Status : Answered Chosen Option : 3  rease public investment in the Product (GDP) at the earliest.

ns	X 1. Cricket	
	× 2. Bowling	
	3. Breaking	
	X 4. Kabaddi	
		Question ID : <b>8161619934</b>
		Status : Answered
		Chosen Option : 4
47	Who among the following launched E-Sampada, a web portal and Governance Day in December 2020?	mobile app on Good
าร	X 1. Prakash Javadekar	
	X 2. Narendra Singh Tomar	
	X 3. Mahendra Nath Pandey	(5)
	4. Hardeep S Puri	CS CS
		Question ID : 81616110090
		Status : Answered
48	Which of the following statements is correct?	Chosen Option : 1
	Which of the following statements is correct?  1. 2 members of the Lok Sabha are nominated by the Speak 2. 12 members of the Rajya Sabha are nominated by the Pre 3. 4 members of the Lok Sabha are nominated by the President A. 2 members of the Rajya Sabha are nominated by the Chair	er of the Lok Sabha. sident. ent.
	1. 2 members of the Lok Sabha are nominated by the Speak 2. 12 members of the Rajya Sabha are nominated by the Pre 3. 4 members of the Lok Sabha are nominated by the President	er of the Lok Sabha. sident. ent.
	1. 2 members of the Lok Sabha are nominated by the Speak 2. 12 members of the Rajya Sabha are nominated by the Pre 3. 4 members of the Lok Sabha are nominated by the President	chosen Option : 1  er of the Lok Sabha.  sident.  ent.  rman of the Rajya Sabha.  Question ID : 81616110132  Status : Answered
	1. 2 members of the Lok Sabha are nominated by the Speak 2. 12 members of the Rajya Sabha are nominated by the Pre 3. 4 members of the Lok Sabha are nominated by the President	chosen Option : 1  er of the Lok Sabha.  sident.  ent.  rman of the Rajya Sabha.  Question ID : 81616110132
49	1. 2 members of the Lok Sabha are nominated by the Speak 2. 12 members of the Rajya Sabha are nominated by the Pre 3. 4 members of the Lok Sabha are nominated by the Presid 4. 2 members of the Rajya Sabha are nominated by the Chai  The East India Company acquired a charter from the ruler of Englagranting it the sole right to trade with the East in the year:  1. 1600 2. 1800	chosen Option : 1  er of the Lok Sabha.  sident.  ent.  rman of the Rajya Sabha.  Question ID : 81616110132  Status : Answered  Chosen Option : 2
49	1. 2 members of the Lok Sabha are nominated by the Speak 2. 12 members of the Rajya Sabha are nominated by the Pre 3. 4 members of the Lok Sabha are nominated by the Presid 4. 2 members of the Rajya Sabha are nominated by the Chair  The East India Company acquired a charter from the ruler of Englagranting it the sole right to trade with the East in the year:  1. 1600	chosen Option : 1  er of the Lok Sabha.  sident. ent. rman of the Rajya Sabha.  Question ID : 81616110132 Status : Answered Chosen Option : 2
49	1. 2 members of the Lok Sabha are nominated by the Speak 2. 12 members of the Rajya Sabha are nominated by the Pre 3. 4 members of the Lok Sabha are nominated by the Presid 4. 2 members of the Rajya Sabha are nominated by the Chai  The East India Company acquired a charter from the ruler of Englagranting it the sole right to trade with the East in the year:  1. 1600 2. 1800	chosen Option : 1  er of the Lok Sabha.  sident. ent.  rman of the Rajya Sabha.  Question ID : 81616110132 Status : Answered Chosen Option : 2  and, Queen Elizabeth I,  Question ID : 8161619825
ns	1. 2 members of the Lok Sabha are nominated by the Speak 2. 12 members of the Rajya Sabha are nominated by the Pre 3. 4 members of the Lok Sabha are nominated by the Presid 4. 2 members of the Rajya Sabha are nominated by the Chai  The East India Company acquired a charter from the ruler of Englagranting it the sole right to trade with the East in the year:  1. 1600 2. 1800	chosen Option : 1  er of the Lok Sabha.  sident.  ent.  rman of the Rajya Sabha.  Question ID : 81616110132  Status : Answered Chosen Option : 2  and, Queen Elizabeth I,

ns	The Radcliffe Line demarcates India's border with which of the follow  1. Bangladesh	3
	2. Nepal	
	3. Pakistan	
	3. Pakistan  4. China	
	4. Cilifia	
		Question ID : <b>8161619921</b>
		Status : <b>Answered</b> Chosen Option : <b>3</b>
		·
ectio	n : General Engineering Mechanical	
Q.1	If there is no change in pressure at any point of the system with time, then	the system is said to be in:
Ans	X 1. chemical equilibrium	
	× 2. thermal equilibrium	5
	→ 3. phase equilibrium	60
	✓ 4. mechanical equilibrium	55
		Question ID : 8161619650 Status : Answered
		Chosen Option : 4
	SOURCE THE TRANSPORT OF THE PROPERTY OF THE PR	
Q.2	in the fuel is oxidised during knocking.	O.
Ans	X 1. Water	200
	× 2. Phosphorus	
	X 3. Coal	
	√ 4. Hydrocarbon	
	20	Question ID : <b>8161619663</b>
	Ance	Status : Answered
	,0,1	Chosen Option : 4
Q.3	If a submerged body, displaced from its equilibrium position, returns to its origina.	position, it is called
Ins	★ 1. neutral equilibrium	
	✓ 2. stable equilibrium	
	X 3. thermal equilibrium	
	× 4. unstable equilibrium	
	~ unstable equilibrium	
		Question ID : 8161619704
		Status : <b>Answered</b>

Q.4	From among the given options, Poisson's ratio is the	ne highest for:
Ans	× 1. wood	
	✓ 2. rubber	
	× 3. iron	
	X 4. copper  ✓ 4. copper	
		Question ID : <b>8161619644</b>
		Status : <b>Answered</b> Chosen Option : <b>2</b>
		Chosen Option . 2
Q.5	An oil of specific gravity $0.7$ is stored in a closed tank up to a height of $2~\mathrm{m}$ . What will be bottom of the tank?	the gauge pressure at the
Ans	<b>★</b> 1. 14 Mpa	
	✓ 2. 0.014 MPa	6
	<b>X</b> 3. 1.4 Mpa	203
	× 4. 0.14 Mpa	55
		Question ID : 8161619709
		Status : Answered
		Chosen Option : 2
Q.6	Pitot tube measures	
Ans	√ 1. dynamic pressure of a moving stream	
	2. temperature of moving water	
	× 3. pressure difference between two fluids	
	★ 4. gauge pressure	
	0,	Question ID : <b>8161619718</b>
	200	Status : <b>Answered</b>
		Chosen Option : 1
Q.7	The tendency of material to fracture without appreciable deformation	n is called
Ans	➤ 1. plasticity	
	× 2. stiffness	
	√ 3. brittleness	
	× 4. toughness	
		Question ID : <b>8161619643</b>
		Status : <b>Answered</b>
		Chosen Option : 4

Q.8 Define free-body diagram. ✓ 1. A figure that represents external forces acting on a body. 2. A diagram that represents internal forces acting on a body. 3. A free-hand sketch representing a body. 4. A diagram that only represents moments acting on a body. Question ID: 8161619443 Status: Answered Chosen Option: 2 Q.9 Which of the following assumptions is the most relevant in air-standard cycle analysis? 1. All the processes within the cycle are irreversible 2. Cycle is assumed to be an open cycle Working fluid is a fixed mass 4 Specific heat of air changes during the cycle Question ID: 8161619486 Status: Answered Chosen Option: 3 wh. Q.10 Air cooling is mostly preferred for Ans X 1. heavy trucks × 2. buses × 3. multi-utility vehicles 4 motorcycles Question ID: 8161619665 Status: Answered Chosen Option: 1 Q.11 In the context of properties of steel, which of the following statements is highly relevant? Ans 1. Presence of manganese decreases strength. **X** 2. Presence of carbon does not influence the heat-treatment process. 3. Presence of carbon contents imparts strength to iron. × 4. Presence of sulphide improves corrosion resistance. Question ID: 8161619535 Status: Answered Chosen Option: 3

>	<ul> <li>1. suction and exhaust</li> <li>2. suction and compression</li> <li>3. suction and expansion</li> </ul>				
7	ACCION NO ACADEMIC ANNOUNCED AND ANNUAL ACCION CANALISMOS CONTRACTORS				
	3. suction and expansion	✓ 2. suction and compression			
7					
	4 compression and expansion				
	Constitution of the Const				
		Question ID : <b>8161619661</b> Status : <b>Answered</b>			
		Chosen Option : 2			
Q.13 Be	enson boilers have water drum(s).				
Ans	1. zero				
7	2. two	6			
7	≺ 3. three	-03			
7	4. one	5			
		Question ID : 8161619677			
		Status : Answered			
		Chosen Option : 1			
Q.14 W	Vhat is kinematic viscosity?	8			
Ans	✓ 1. It is the ratio of dynamic viscosity to mass density.				
7	2. It is the rate of change of shear stress.	20			
>	3. It is the rate of change of shear strain.				
	4. It is the ratio of dynamic viscosity to rela	tive density.			
		Question ID : <b>8161619500</b>			
	CO	Status : Answered			
		Chosen Option : 1			

.16	Foaming is a phenomenon that occurs in the boiler feed water due to			
Ans	1. manganese  2. sodium chloride			
	★ 4. nitrogen peroxide			
			Question ID: <b>8161619676</b>	
		Status : <b>Answered</b> Chosen Option : <b>4</b>		
Q.17	Otto cycle of a car engine consists of:			
Ans	★ 1. one adiabatic cycle only			
	× 2. one isochore cycle only	6		
	√ 3. two isochore and two reversable adiabatic cycles	203		
	★ 4. four adiabatic cycles	55		
		0.541.710.05550470		
		Question ID : <b>8161619453</b> Status : <b>Answered</b>		
		Chosen Option : 3		
Q.18	Which of the following is NOT a part of refrigeration systems?			
Ans	X 1. Compressor			
	× 2. Condenser			
	X 3. Evaporator			
	✓ 4. Turbine			
	900 - 10.0 0.0 10.0 0.0 0.0 0.0 0.0 0.0 0.0 0			
		Question ID : <b>8161619653</b> Status : <b>Answered</b>		
		Chosen Option : 4		
Q.19	Which of the following is the most widely used fuel in	hoilers?		
Ans	1. Wood	concis.		
	× 2. Oil			
	× 3. Pulverised coal			
	✓ 4. Anthracite coal			
	The Automotive Contract Contra			
		Question ID: 8161619670		
		Status : <b>Answered</b>		

.20	In the context of laminar flow, which of the following statements is the m	ost appropriate?				
Ans	★ 1. Flow is always through small tanks.					
	2. Particles move in a turbulent order.					
	Laminar flow is observed in high viscous fluids at low velocity.  **A.*  There will be an exchange of momentum from fluid particles of one layer to another layer.					
						Question ID : <b>8161619511</b>
						Status : Answered
		Chosen Option : 3				
.21	Any change in entropy could be achieved by changing	g .				
Ans	✓ 1. heat	6				
	× 2. acceleration	-03				
	X 3. velocity	3				
	× 4. mass	10.5				
		Question ID : 8161619655 Status : Answered				
		Chosen Option : 1				
.22	Control of the Contro					
	Coated electrodes are used in					
ıns	★ 1. tungsten inert gas welding					
	× 2. gas tungsten arc welding					
	★ 3. submerged arc welding					
	✓ 4. shielded metal arc welding					
		Question ID : <b>8161619733</b> Status : <b>Answered</b>				
		Chosen Option : 3				
.23	A power plant that uses a gas turbine followed by a steam turbine for necessary power generation	is known as a				
	cycle power plant.					
ns	➤ 1. topping					
	× 2. bottom					
	× 3. generation					
	✓ 4. combined					
		Question ID : <b>8161619686</b>				
		Status : Answered				
		Chosen Option : 4				

Q.24 Which of the following is NOT an intensive property? Ans X 1. Pressure ✓ 2. Total volume X 3. Temperature X 4. Density Question ID: 8161619649 Status: Answered Chosen Option: 2 Q.25 Which of the following is not a property of an Ideal fluid. X 1. it is incompressible 2. it has Viscosity X 3. has no viscosity X 4. flow is Irrotational Question ID: 8161619715 Status: Answered Chosen Option: 2 Q.26 In high-speed aircrafts flying at high altitudes, why is cooling of the cabin required even if temperature outside is very Ans 1. Due to absence of solar radiation X 2. To improve fuel efficiency ✓ 3. Due to large internal heat generation X 4. Since outside pressure is very high Question ID: 8161619488 Status: Marked For Review Chosen Option: 3 Q.27 Which of the following is NOT a non-ferrous alloy? Ans X 1. Titanium X 2. Aluminium √ 3. Stainless steel X 4. Magnesium Question ID: 8161619735 Status: Answered Chosen Option: 3

Q.28			
Ans	<b>★</b> 1. CF <sub>3</sub>		
	√ 2. H <sub>2</sub> O		
	X 3. LiBr		
	<b>★</b> 4. H <sub>2</sub> O <sub>2</sub>		
		Question ID : <b>8161619692</b>	
		Status : Not Attempted and Marked For Review	
		Chosen Option :	
0.20	MARKET STATE OF THE STATE OF TH		
Q.29	The splash system is NOT used to lubricate		
Ans	➤ 1. tappets		
	2. gear teeth and roller bearings	05	
	× 3. camshafts	C C C C C C C C C C C C C C C C C C C	
	★ 4. piston rings	103	
		Question ID : 8161619664	
		Status : Answered	
		Chosen Option: 2	
Q.30	The device which transfers energy from the to the	is known as hydraulic turbine.	
Ans	✓ 1. fluid; rotor	0	
	× 2. fluid; atmosphere		
	X 3. atmosphere; fluid	3)	
	➤ 4. rotor; fluid		
	20	Question ID : 8161619726	
	, nco	Status : Marked For Review	
	,0,1	Chosen Option : 2	
Q.31	Within a refrigeration system, the expansion valve is incorp	prated between the	
Ans	★ 1. super-heater and sub-cooler		
	× 2. compressor and condenser		
	√ 3. condenser and evaporator		
	× 4. evaporator and compressor		
		Question ID : 8161619688 Status : Answered	
		Chosen Option: 3	

Q.32	is useful for measuring flow of a conduc	ting fluid.	
Ans	<ul> <li>X 1. Rotameter</li> <li>✓ 2. Electro-magnetic flow meter</li> </ul>		
	X 3. Vane meter		
	× 4. Orifice meter		
		Question ID : 8161619722 Status : Answered	
		Chosen Option : 1	
2.33	What was the first refrigerant used in continuous ref	rigeration system?	
Ans	X 1. Ammonia		
	× 2. Carbon dioxide		
	✓ 3. Water	(5)	
	X 4. Air	25	
		Question ID: 8161619494	
		Status : Answered	
		Chosen Option : 1	
).34	The efficiency of an ideal diesel engine does NOT directly	depend on	
Ans	1. the cut-off ratio	depend on	
	× 2. the compression ratio	CO.	
	3. the isentropic index		
	√ 4. the fluid pressure		
		Question ID : <b>8161619657</b>	
		Status : <b>Answered</b>	
		Chosen Option : 4	
.35	Fusible plug is generally made up of an alloy (gunmetal) which consists of copper, tin and		
Ans	X 1. aluminium		
	✓ 2. zinc		
	× 3. cast iron		
	× 4. manganese		
		Question ID : <b>8161619680</b>	
		Status : Answered	
		Chosen Option : 2	

	Which of the following is NOT a part of the Ra	ankine cycle?	
Ans	✓ 1. Compressor		
	× 2. Turbine		
	× 3. Pump		
	× 4. Boiler		
		Question ID : <b>8161619667</b>	
		Status : Answered	
		Chosen Option : 1	
Q.37	The flash chamber in the single stage VCR cycle	e serves to	
Ans	★ 1. decrease the refrigerating effect		
	× 2. decrease the compression ratio	6	
	✓ 3. increase the refrigerating effect	603	
	X 4. increase the compression ratio	153	
		Question ID : 8161619689 Status : Answered	
		Chosen Option: 2	
Q.38	In the Rankine cycle, the fluid which enters the	boiler is:	
Q.38 Ans	In the Rankine cycle, the fluid which enters the	boiler is:	
	➤ 1. steam	boiler is:	
		boiler is:	
	1. steam 2. mercury	boiler is:	
	<ul><li>1. steam</li><li>2. mercury</li><li>✓ 3. water</li></ul>		
	<ul><li>1. steam</li><li>2. mercury</li><li>✓ 3. water</li></ul>	Question ID: 8161619668 Status: Answered	
	<ul><li>1. steam</li><li>2. mercury</li><li>✓ 3. water</li></ul>	Question ID : <b>8161619668</b>	
	<ul><li>1. steam</li><li>2. mercury</li><li>✓ 3. water</li></ul>	Question ID : 8161619668 Status : Answered Chosen Option : 3	
Ans	1. steam 2. mercury 3. water 4. oxygen	Question ID : 8161619668 Status : Answered Chosen Option : 3	
Ans	<ul> <li>★ 1. steam</li> <li>★ 2. mercury</li> <li>★ 3. water</li> <li>★ 4. oxygen</li> </ul> A capillary tube is employed in a refrigeration	Question ID : 8161619668 Status : Answered Chosen Option : 3	
Ans	<ul> <li>1. steam</li> <li>2. mercury</li> <li>3. water</li> <li>4. oxygen</li> <li>1. produce a cooling effect</li> <li>2. reduce pressure of the refrigerant</li> </ul>	Question ID: 8161619668 Status: Answered Chosen Option: 3  cycle to	
Ans	<ul> <li>1. steam</li> <li>2. mercury</li> <li>3. water</li> <li>4. oxygen</li> <li>1. produce a cooling effect</li> <li>2. reduce pressure of the refrigerant</li> <li>3. control temperature of the refrigerated specified</li> </ul>	Question ID: 8161619668 Status: Answered Chosen Option: 3  cycle to	
Ans	<ul> <li>1. steam</li> <li>2. mercury</li> <li>3. water</li> <li>4. oxygen</li> <li>1. produce a cooling effect</li> <li>2. reduce pressure of the refrigerant</li> </ul>	Question ID: 8161619668 Status: Answered Chosen Option: 3  cycle to	
Ans	<ul> <li>1. steam</li> <li>2. mercury</li> <li>3. water</li> <li>4. oxygen</li> <li>1. produce a cooling effect</li> <li>2. reduce pressure of the refrigerant</li> <li>3. control temperature of the refrigerated specified</li> </ul>	Question ID: 8161619668 Status: Answered Chosen Option: 3  cycle to	

2.40	ic defined as the ability of a material to resist deformat	ion under action of an external load	
Ans	is defined as the ability of a material to resist deformation under action of an external load.  **The Stiffness**		
	× 2. Brittleness		
	× 3. Toughness		
	× 4. Resilience		
	* Resilience		
		Question ID : <b>8161619639</b>	
		Status : <b>Answered</b> Chosen Option : <b>1</b>	
	F 70 107 50005 1 8 600 5 10 2 0 5 M 107 17 1 100 1 10 1 10 10 10 10 10 10 10 10 10	3 No. 100	
).41	A ball and socket joint is an example of a	pair.	
Ans	✓ 1. spherical		
	× 2. turning		
	→ 3. rolling		
	× 4. screw		
		Question ID : 8161619437 Status : Answered	
		Chosen Option : 1	
2.42	Smoke emitting from a lighted cigarette r	enresents	
Ans	X 1. Point		
	× 2. streamline	STOP OF	
	✓ 3. streakline	in	
	× 4. pathline	20)	
	* padnine		
	0,	Question ID : 8161619714	
	Co	Status : Answered Chosen Option : 3	
	CARAMACIA I (2011 11 10 2 10 10 1 1 1 1 1 2 1 1 1 1 1		
	Which of the following equipment gives direct	reading of fluid flow rates?	
	➤ 1. Hot wire anemometer	reading of fluid flow rates?	
	1. Hot wire anemometer 2. Rotameter	reading of fluid flow rates?	
	➤ 1. Hot wire anemometer	reading of fluid flow rates?	
	1. Hot wire anemometer 2. Rotameter	reading of fluid flow rates?	
	<ul> <li>1. Hot wire anemometer</li> <li>2. Rotameter</li> <li>3. Nutating disk flow meter</li> </ul>	reading of fluid flow rates?  Question ID: 8161619721	
Q.43 Ans	<ul> <li>1. Hot wire anemometer</li> <li>2. Rotameter</li> <li>3. Nutating disk flow meter</li> </ul>		

	If the gauge pressure of air in a cylinder is 250 kPa, then it's abso	P
6	X 1. 150 kPa	
	× 2. 50 kPa	
	X 3. 450 kPa	
	✓ 4. 350 kPa	
		Question ID : <b>8161619708</b>
		Status : Answered
		Chosen Option : 4
.45	is NOT a water tube boiler.	
Ans	★ 1. Stirling boiler	
	✓ 2. Scotch Marine boiler	
	X 3. Babcock-Wilcox boiler	(5)
	× 4. Benson boiler	6
		Question ID : 8161619672 Status : Answered
		Chosen Option : 2
	In the context of roto-dynamic machines, which of the follows.  1.  There will be a relative motion between the roto 2.	
	There will be a relative motion between the roto  2.  While flowing through the stator, linear mom	or vanes and the fluid.  entum changes.
	There will be a relative motion between the roto  2.  While flowing through the stator, linear mom  3. Linear momentum is the direction norm	or vanes and the fluid.  entum changes.  nal to the rotor.
	There will be a relative motion between the roto  2.  While flowing through the stator, linear mom  3. Linear momentum is the direction norm	or vanes and the fluid.  nentum changes.  nal to the rotor.
).46 Ans	There will be a relative motion between the roto  2.  While flowing through the stator, linear mom  3. Linear momentum is the direction norm	or vanes and the fluid.  entum changes.  mal to the rotor.  tor.  Question ID: 8161619526
	There will be a relative motion between the roto  2.  While flowing through the stator, linear mom  3. Linear momentum is the direction norm	or vanes and the fluid.  mentum changes.  mal to the rotor.  tor.
	There will be a relative motion between the roto  2.  While flowing through the stator, linear mom  3. Linear momentum is the direction norm	or vanes and the fluid.  entum changes.  mal to the rotor.  tor.  Question ID: 8161619526
	There will be a relative motion between the roto  2.  While flowing through the stator, linear mom  3. Linear momentum is the direction norr  4. Linear momentum is normal to the state	or vanes and the fluid.  Dentum changes.  The protocolor of the rotor.  Question ID: 8161619526  Status: Not Attempted and Marked For Review  Chosen Option:
Ans	There will be a relative motion between the roto  2.  While flowing through the stator, linear mom  3. Linear momentum is the direction norr  4. Linear momentum is normal to the state  A two-stroke engine consists of port(	or vanes and the fluid.  Dentum changes.  The protocolor of the rotor.  Question ID: 8161619526  Status: Not Attempted and Marked For Review  Chosen Option:
Ans 2.47	There will be a relative motion between the roto  2.  While flowing through the stator, linear mom  3. Linear momentum is the direction norr  4. Linear momentum is normal to the state  A two-stroke engine consists of port(  1. three	or vanes and the fluid.  Dentum changes.  The protocolor of the rotor.  Question ID: 8161619526  Status: Not Attempted and Marked For Review  Chosen Option:
Ans	There will be a relative motion between the roto  2.  While flowing through the stator, linear mom  3. Linear momentum is the direction norr  4. Linear momentum is normal to the state  A two-stroke engine consists of port(  1. three  2. one	or vanes and the fluid.  Dentum changes.  The protocolor of the rotor.  Question ID: 8161619526  Status: Not Attempted and Marked For Review  Chosen Option:
Ans 2.47	There will be a relative motion between the roto  2.  While flowing through the stator, linear mom  3. Linear momentum is the direction norr  4. Linear momentum is normal to the state  A two-stroke engine consists of port(  1. three	or vanes and the fluid.  Dentum changes.  The protocolor of the rotor.  Question ID: 8161619526  Status: Not Attempted and Marked For Review  Chosen Option:
Ans 2.47	There will be a relative motion between the roto  2.  While flowing through the stator, linear mom  3. Linear momentum is the direction norr  4. Linear momentum is normal to the state  1. three  2. one  3. four	or vanes and the fluid.  Dentum changes.  The rotor.  Question ID: 8161619526  Status: Not Attempted and Marked For Review  Chosen Option:
Ans 2.47	There will be a relative motion between the roto  2.  While flowing through the stator, linear mom  3. Linear momentum is the direction norr  4. Linear momentum is normal to the state  1. three  2. one  3. four	or vanes and the fluid.  entum changes.  mal to the rotor.  or.  Question ID: 8161619526  Status: Not Attempted and Marked For Review Chosen Option:

Q.48	For a steady flow, the values of all fluid properties at any	fixed point	
Ans	<ul><li>✓ 1. change with location</li><li>✓ 2. do not change with time</li></ul>		
	→ 3. do not change with location		
	× 4. change with time		
		Question ID : <b>8161619710</b> Status : <b>Answered</b>	
		Chosen Option : 2	
Q.49	Viscous forces are NOT available in		
Ans	X ¹ rotational flow		
	× 2. laminar flow	-5	
	★ 3. transitional flow	600	
	√ 4. irrotational flow	53	
		Ouestion ID : 8161619713	
		Status : Answered	
		Chosen Option : 4	
Q.50	Which of the following does NOT represent a un	uit of viscosity?	
Ans	X ¹. Stoke	30	
	× 2. m <sup>2</sup> /sec		
	✓ 3. N-m/sec		
	X 4. Poise		
		Outsting ID - 0454540745	
		Question ID : <b>8161619716</b> Status : <b>Answered</b>	
		Chosen Option : 3	
Q.51	Variation of stress with strain rate for a Newtonian	ı fluid is	
Ans	✓ 1. linear		
	× 2. elliptical		
	X 3. parabolic		
	X 4. hyperbolic		
	a) Persons		
		Question ID : 8161619717 Status : Answered	
		Chosen Option : 1	

Q.52	Those pumps employed for mud related work have	type of impeller.
Ans	X ¹ a double-suction	
	× 2 a one-side shrouded	
	× 4. a two-side shrouded	
		Question ID : 8161619728 Status : Answered Chosen Option : 3
	In which of the following types of compressors are the motor and compressor en	closed in the same housing?
Ans	★ 1. Axial flow type compressor	
	★ 2. Reciprocating compressor	
	✗ 3. Open-type compressor	25
	✓ 4. Hermetic compressor	5 55
		Question ID: 8161619483
		Status : Answered Chosen Option : 4
Q.54	The Babcock-Wilcox boiler is classified as a water to	
Ans	1 it has a large reservoir of water at the bottom	om
	✓ 2. water passes through the tube and hot gase	es around
	X 3. water passes around the tubes having hot	gases
	4. water heater is mounted on the boiler itsel	f
		Question ID : <b>8161619673</b>
	c.Ø	Status : <b>Answered</b>
		Chosen Option : 2
Q.55	The density of fluid does NOT affect the workin	g of
Ans	X 1. an orifice meter	
	× 2. a rotameter	
	X 3. a nozzle meter  → 3. a nozzle meter	
	√ 4. an electro-magnetic flow meter	
		Question ID : 8161619723 Status : Answered
		Chosen Option : 4

Q.56 When two elements of a pair are connected such that they can only turn about a fixed axis of another element, they are Ans X 1 a spherical pair 2. a turning pair X 3. a screw pair X 4. a sliding pair Question ID: 8161619637 Status : **Answered** Chosen Option: 2 Q.57 Which of the following statements is correct about a Benson boiler? 1. Flue gases pass only in one direction X 2. Air is sent through the same direction √ 3. There is no recirculation of water 4 Steam is sent out in multiple directions Question ID: 8161619675 Status: Answered Chosen Option: 3 Q.58 The function of a carburetor in internal combustion engines is: √ 1. to Maintain air-fuel ratio nceting × 2. to control fuel alone X 3. to control air alone X 4. to cool exhaust gases Question ID: 8161619660 Status: Answered Chosen Option: 1 Q.59 Which of the following is NOT a unit of pressure? Ans ✓ 1. Joule × 2. N/m<sup>2</sup> X 3. Bar X 4. Pa Question ID: 8161619707 Status: Answered Chosen Option: 1

Q.60	Nozzles used in steam turbines convert	
Ans	X 1. pressure energy into work	
	× 2. enthalpy of steam into pressure energy	
	✓ 3. enthalpy of steam into kinetic energy	
	× 4. enthalpy of steam into work	
		Question ID : 8161619696
		Status : <b>Answered</b> Chosen Option : <b>3</b>
Q.61	falls under the category of a water tube bo	piler.
Ans	➤ 1. Locomotive boiler	
	× 2. Cornish boiler	6
	✓ 3. LaMont boiler	60
	× 4. Lancashire boiler	55
		0/24/24/04/24
		Question ID : <b>8161619674</b> Status : <b>Answered</b>
		Chosen Option : 3
Q.62	For a refrigerating machine, capacity is expressed	as
Ans	✓ 1. rate of heat extraction from the space being	cooled
	× 2. gross weight of the machine	
	× 3. inside volume of the cabinet	
	× 4. the lowest temperature attained	
	-0	0 11 15 044440404
		Question ID : <b>8161619694</b> Status : <b>Answered</b>
	A die lowest temperature attained	Chosen Option : 1
Q.63		
Ans	1. shear stress	
	× 2. dynamic viscosity	
	√ 3. kinematic viscosity	
	X ⁴ velocity gradient	
		Question ID : <b>8161619701</b>
		Status : Answered
		Chosen Option : 3

0.4	6251 (FOOTBOX 1982 1111 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
Q.64	Impact load is an example of:	
Ans	★ 1. uniform load	
	× 2. static load	
	√ 3. dynamic load	
	X 4. fatigue load	
		Question ID : <b>8161619441</b> Status : <b>Answered</b>
		Chosen Option : 4
0.65	Tetha relationship between above trace of a fluid is NOT linear to the relation are	dient then the fluid in
Q.05	If the relationship between shear stress of a fluid is NOT linear to the velocity gra 1. a compressible fluid	dient, then the fluid is:
	5-10-10-10-10-10-10-10-10-10-10-10-10-10-	
	✓ 2. a non-Newtonian fluid	5
	3. an ideal fluid	60
	× 4. a Newtonian fluid	53
		Question ID : 8161619700
		Status : Answered Chosen Option : 2
		Silven opining
Q.66	Lancashire boiler has flue tube(s), whereas Cornish boiler has	flue tube(s).
Ans	<b>X</b> 1. 1; 2	0
	<b>√</b> 2. 2; 1	0
	× 3. 2; 2	
	<b>X</b> 4. 3; 2	
		Question ID : <b>8161619678</b> Status : <b>Answered</b>
		Chosen Option: 2
Q.67		
	The compression ratio in Rical an standard cycles i	s the ratio of:
Ans	1. maximum pressure to minimum pressure	
	√ 2. maximum volume to minimum volume	
	3 minimum pressure to maximum pressure	
	× 4. minimum volume to maximum volume	
		Question ID : <b>8161619658</b>
		Status : <b>Answered</b>
		Chosen Option : 2
		onoscii opiicii: 2

Q.68	For a given centrifugal pump, discharge varies	with speed.
Ans	X 1. inversely	
	✓ 2. linearly	
	→ 3. square root of	
	X 4. fifth power of	
		Question ID : 8161619729 Status : Answered Chosen Option : 2
Q.69	What is ductility in steel?	
Ans	X 1. Stress at yield stress	
	× 2. Ratio of change in length to original length	65
	X 3. Ratio of ultimate stress to yield stress	6
	√ 4. Amount of strain a material can withstand by	pefore fracture
		Question ID : <b>8161619532</b>
		Status : Answered
		Chosen Option : 4
Q.70	In flow measurement, a Venturi meter is preferred over an orifice p	late because
Q.70 Ans	In flow measurement, a Venturi meter is preferred over an orifice p  1. pressure drop is more	late because
		late because
	➤ 1. pressure drop is more	late because
	<ul> <li>X 1. pressure drop is more</li> <li>X 2. it is cheaper</li> <li>✓ 3. energy or head loss is less</li> <li>X 4. space is limited</li> </ul>	late because
	<ul> <li>X 1. pressure drop is more</li> <li>X 2. it is cheaper</li> <li>✓ 3. energy or head loss is less</li> <li>X 4. space is limited</li> </ul>	Question ID: 8161619720
	<ul> <li>X 1. pressure drop is more</li> <li>X 2. it is cheaper</li> <li>✓ 3. energy or head loss is less</li> <li>X 4. space is limited</li> </ul>	Question ID : 8161619720 Status : Answered
	<ul> <li>X 1. pressure drop is more</li> <li>X 2. it is cheaper</li> <li>✓ 3. energy or head loss is less</li> </ul>	Question ID: 8161619720
	<ul> <li>X 1. pressure drop is more</li> <li>X 2. it is cheaper</li> <li>✓ 3. energy or head loss is less</li> <li>X 4. space is limited</li> </ul>	Question ID : 8161619720 Status : Answered
Ans	<ul> <li>X 1. pressure drop is more</li> <li>X 2. it is cheaper</li> <li>✓ 3. energy or head loss is less</li> <li>X 4. space is limited</li> </ul>	Question ID : 8161619720 Status : Answered
Q.71	<ul> <li>X 1. pressure drop is more</li> <li>X 2. it is cheaper</li> <li>✓ 3. energy or head loss is less</li> <li>X 4. space is limited</li> </ul> In a Pelton wheel, jet ratio values are	Question ID : 8161619720 Status : Answered
Ans	<ul> <li>X 1. pressure drop is more</li> <li>X 2. it is cheaper</li> <li>✓ 3. energy or head loss is less</li> <li>X 4. space is limited</li> <li>In a Pelton wheel, jet ratio values are</li> <li>X 1. less than 1</li> <li>X 2. between 2 and 5</li> <li>✓ 3. more than 6</li> </ul>	Question ID : 8161619720 Status : Answered
Q.71	<ul> <li>X 1. pressure drop is more</li> <li>X 2. it is cheaper</li> <li>✓ 3. energy or head loss is less</li> <li>X 4. space is limited</li> <li>In a Pelton wheel, jet ratio values are</li> <li>X 1. less than 1</li> <li>X 2. between 2 and 5</li> </ul>	Question ID : 8161619720 Status : Answered
Q.71	<ul> <li>X 1. pressure drop is more</li> <li>X 2. it is cheaper</li> <li>✓ 3. energy or head loss is less</li> <li>X 4. space is limited</li> <li>In a Pelton wheel, jet ratio values are</li> <li>X 1. less than 1</li> <li>X 2. between 2 and 5</li> <li>✓ 3. more than 6</li> </ul>	Question ID : 8161619720 Status : Answered
Ans	<ul> <li>X 1. pressure drop is more</li> <li>X 2. it is cheaper</li> <li>✓ 3. energy or head loss is less</li> <li>X 4. space is limited</li> <li>In a Pelton wheel, jet ratio values are</li> <li>X 1. less than 1</li> <li>X 2. between 2 and 5</li> <li>✓ 3. more than 6</li> </ul>	Question ID: 8161619720 Status: Answered Chosen Option: 3

72	Draught is produced in locomotive boilers by which of the follow	ing components?
ns	× 1. Chimney	
	× 2. Locomotion	
	✓ 3. Steam jet	
	× 4. Centrifugal fan	
	- Commission Commission	
		Question ID : <b>8161619671</b> Status : <b>Answered</b>
		Chosen Option : 3
.73	Define thermodynamics.	
Ans	1. It deals with dynamics under thermal condition	no.
	<ul><li>2. It is a science which deals with work done.</li><li>3.</li></ul>	05)
	It is a science which deals with the relation between work and prop	erties of systems.
	<b>✓</b> 4.	. 69
	It is a science which deals with the relation between heat, work and pro-	p <mark>er</mark> ties of systems.
		Question ID : <b>8161619449</b>
		Status : Answered
		Chosen Option : 4
Q.74	The reversed cycle is employed for passenger air	rcraft systems.
Ans	X 1. Carnot	
	× 2. Ericsson	
	× 3. Atkinson	
	✓ 4. Brayton	
		Question ID : <b>8161619695</b> Status : <b>Answered</b>
		Chosen Option : 4
Q.75	valves are provided in reciprocating compre	essors.
Ans	★ 1. Simply supported	
	✓ 2. Plate	
	X 3. Poppet	
	56 56 56 TO	
	★ 4. Solenoid	
		Question ID: 8161619684
		Status : Not Attempted and Marked For Review
		Chosen Option :

Q.76	The maximum temperature in case of internal combusti	on engines is obtained at	
Ans	<ul> <li>★ 1. end of the compression process</li> <li>✓ 2. start of the expansion process</li> </ul>		
	× 3. end of the expansion process		
	★ 4. start of the compression process		
		Question ID : <b>8161619659</b>	
		Status : <b>Answered</b>	
		Chosen Option: 1	
Q.77	The modern Francis turbine is a	flow turbine.	
Ans	✓ 1. mixed		
	× 2. tangential	6	
	× 3. radial	600	
	× 4. axial	55	
		Question ID : 8161619724	
		Status : Answered	
		Chosen Option : 1	
	Flow velocity at the throat of a converging-diverging nozzle is	, when designed for maximum discharge.	
Ans	✓ 1. sonic	0	
	★ 2. hypersonic		
	→ 3. sub-sonic		
	X 4. supersonic		
		Question ID : <b>8161619698</b>	
		Status : Answered	
		Chosen Option: 1	
	The value of quality or dryness fraction of a substance in satur	ated liquid-vapour mixture is	
Ans	X 1. 0		
	<b>X</b> 2. 2		
	<b>X</b> 3. 1		
	4. between 0 and 1		
		Question ID : 8161619645	
		Status : <b>Answered</b> Chosen Option : <b>4</b>	
		· .	

.80	Uniform flow is the type of flow wherein velocity at any given time _	with respect to space.
Ans	√ 1. Does not change	
	× 2. Changes	
	× 3. Increases	
	× 4. Decreases	
		Question ID : <b>8161619712</b>
		Status: Answered
		Chosen Option : 1
.81	If the oil viscosity increases, then the wear loss	s
Ans	★ 1. remains the same	
	× 2. becomes zero	
	✓ 3. decreases	(5)
	× 4. increases	-50
		Question ID : <b>8161619666</b>
		Status: Answered
		Chosen Option : 3
Q.82	For a 2 m deep swimming pool, pressure difference between the top and the bo	ottom of the pool is kPa.
Ans	X 1. 22	
	× 2. 12	CO'
	<b>√</b> 3. 19.6	76
	<b>×</b> 4. 11	
		Ouestion ID : 8161619646
		Status : Answered
		Chosen Option : 3
.83	Fusible plug in a steam boiler is placed	
Ans	✓ 1. at the crown of the furnace	
Ans	at the crown of the fullace	
Ans		
Ans	★ 2. below the water level indicator	
Ans	<ul> <li>2. below the water level indicator</li> <li>3. at the fire grate of the boiler</li> </ul>	
Ans	★ 2. below the water level indicator	
Ans	<ul> <li>2. below the water level indicator</li> <li>3. at the fire grate of the boiler</li> </ul>	Question ID : <b>8161619679</b> Status : <b>Answered</b>

Q.84	Which of the following processes is NOT part of an	ideal Otto cycle?
Ans	which of the following processes is 1101 part of the	ideal Otto cycle:
	✓ 1. Heat addition at constant pressure	
	2. Heat addition at constant volume	
	★ 3. Isentropic compression	
	★ 4. Isentropic expansion	
		Question ID: 8161619656
		Status : <b>Answered</b> Chosen Option : <b>1</b>
).85	The moisture content of steam at the turbine exit of a steam power plant operating o decreased by:	n the Rankine cycle can be
Ans	★ 1. decreasing boiler pressure	
	× 2. increasing boiler pressure	25
	✓ 3. reheating steam	c c c c c c c c c c c c c c c c c c c
	X ₄ super cooling steam  ✓ ₄ super cooling steam	
	The Contract of the Contract o	
		Question ID : 8161619669 Status : Answered
Q.86	For a floating body, if the metacentre is below the centre of gravity, then the body is said	Status : Answered Chosen Option : 3
	For a floating body, if the metacentre is below the centre of gravity, then the body is said  1. neutral	Status : Answered Chosen Option : 3
		Status : Answered Chosen Option : 3
	➤ 1. neutral	Status : Answered Chosen Option : 3
	<ul> <li>1. neutral</li> <li>2. stable</li> <li>3. unstable</li> <li>4. thermal</li> </ul>	Status : Answered Chosen Option : 3
	<ul> <li>1. neutral</li> <li>2. stable</li> <li>3. unstable</li> <li>4. thermal</li> </ul>	Status : Answered Chosen Option : 3  to be inequilibrium.
	<ul> <li>1. neutral</li> <li>2. stable</li> <li>3. unstable</li> <li>4. thermal</li> </ul>	Status : Answered Chosen Option : 3  to be in equilibrium.  Question ID : 8161619705 Status : Answered
	<ul> <li>1. neutral</li> <li>2. stable</li> <li>3. unstable</li> <li>4. thermal</li> </ul>	Status : Answered Chosen Option : 3  to be in equilibrium.  Question ID : 8161619705
Ans	<ul> <li>1. neutral</li> <li>2. stable</li> <li>3. unstable</li> </ul>	Status : Answered Chosen Option : 3  to be in equilibrium.  Question ID : 8161619705 Status : Answered
Ans 2.87	<ul> <li>1. neutral</li> <li>2. stable</li> <li>3. unstable</li> <li>★ 4. thermal</li> </ul>	Status : Answered Chosen Option : 3  to be in equilibrium.  Question ID : 8161619705 Status : Answered
Ans 9.87	1. neutral 2. stable 3. unstable 4. thermal  Chaplets are used in	Status : Answered Chosen Option : 3  to be in equilibrium.  Question ID : 8161619705 Status : Answered
Ans 2.87	1. neutral 2. stable 3. unstable 4. thermal  Chaplets are used in  1. welding	Status : Answered Chosen Option : 3  to be in equilibrium.  Question ID : 8161619705 Status : Answered
Ans	<ul> <li>1. neutral</li> <li>2. stable</li> <li>3. unstable</li> <li>4. thermal</li> </ul> Chaplets are used in <ul> <li>1. welding</li> <li>2. extrusion</li> <li>3. casting</li> </ul>	Status : Answered Chosen Option : 3  to be in equilibrium.  Question ID : 8161619705 Status : Answered
Ans	<ul> <li>1. neutral</li> <li>2. stable</li> <li>3. unstable</li> <li>★ 4. thermal</li> </ul> Chaplets are used in <ul> <li>1. welding</li> <li>★ 2. extrusion</li> </ul>	Status: Answered Chosen Option: 3  To be in equilibrium.  Question ID: 8161619705 Status: Answered Chosen Option: 3
Q.86 Ans	<ul> <li>1. neutral</li> <li>2. stable</li> <li>3. unstable</li> <li>4. thermal</li> </ul> Chaplets are used in <ul> <li>1. welding</li> <li>2. extrusion</li> <li>3. casting</li> </ul>	Status : Answered Chosen Option : 3  to be in equilibrium.  Question ID : 8161619705 Status : Answered

Q.88	CANNOT be classified as inversion(s) of a single-slide	r crank mechanism.
Ans	X 1. Whitworth quick-return mechanism	
	× 2. Crank and slotted-lever mechanism	
	X 3. Oscillating cylinder engine  → 3. Oscillating cylinder engine	
	✓ 4. Elliptical trammel	
		Question ID : <b>8161619638</b> Status : <b>Answered</b>
		Chosen Option : 4
Q.89	is used for pumping water into a boiler.	
Ans	× 1. Rotor	
	✓ 2. Feed pump	
	X 3. Duplex pump	200
	× 4. Economiser	.55
		Question ID : 8161619681
		Status : Answered
		Chosen Option : 2
Q.90	Where is air cycle refrigeration commonly used?	
Ans	★ 1. Car air conditioning	CO.
	× 2. Domestic refrigerator	8
	✓ 3. Aircraft conditioning	
	X 4. Cold storage	
	# Na Colored party and recommendation	
	TCO.	Question ID : <b>8161619492</b> Status : <b>Answered</b>
		Chosen Option : 3
Q.91	Compounding of a steam turbine is done to	
Ans	1 reduce the blade friction	
	× 2. balance the rotor	
	√ 3. reduce the rotor speed	
	× 4. connect the shaft	
		Question ID : <b>8161619697</b>
		Status : <b>Answered</b>
		Chosen Option : 3

Q.92	Pressure measurement is done by	, by measuring heat loss from a heated wire.	
Ans	s 🗸 1. a Pirani gauge		
	× 2. an orifice meter		
	X 3. a manometer		
	× 4. a barometer		
		Question ID : 8161619706 Status : Answered	
		Chosen Option : 1	
93	The flow in value assing autoide the	ha natating impollar of a contribugal manualist	
Q.93 Ans	1. axial flow	he rotating impeller of a centrifugal pump is:	
	2. free vortex flow		
	3. forced vortex flow		
	✓ 4. radial flow	cs /	
		Question ID: 8161619730	
		Status: Answered	
		Chosen Option : 2	
.94	If the specific gravity of oil is 0.7	, then its density in kg/m <sup>3</sup> will be	
Ans	<b>X</b> 1. 70		
	✓ 2. 700		
	X 3. 7		
	× 4. 7000		
	7000		
		Question ID : <b>8161619702</b> Status : <b>Answered</b>	
		Chosen Option: 2	
.95 \ns	A CONTRACTOR OF THE PROPERTY O	d to heat up the compressor exit flow, it is known as	
4115	1. intracooling		
	× 2. re-evaporating		
	√ 3. regeneration		
	100 - 100 -		
	<ul><li>✓ 3. regeneration</li><li>✓ 4. intercooling</li></ul>		
	100 - 100 -	Question ID: <b>8161619683</b>	
	100 - 100 -	Question ID : 8161619683 Status : Answered Chosen Option : 3	

.96	Which of the following statements is more relevant in	the context?		
ns	★ 1.  Metacentric height is positive in case of unstable equilibrium.			
	<b>✓</b> 2.			
	The centre of buoyancy in a submerged body remains unchanged.  3.			
	If center of gravity is below the centre of buoyancy, the book × 4.	dy is unstable.		
	4. When the body is fully submerged, shape of the displaced fluid alters when the body is tilted.			
		Question ID : <b>8161619504</b>		
		Status : Answered		
		Chosen Option : 4		
.97	A dead weight tester is used widely for	0,5		
Ans	★ 1. producing high pressures	es /		
	2. testing magnitude of the given weight	103		
	√ 3. calibration of other equipment	C)		
	★ 4. accurate measurement of loads			
		Question ID : <b>8161619719</b>		
		Status : Marked For Review		
		Chosen Option : 3		
).98	If Value of dryness fraction is 0, it indicates that working flui	d is at		
Ans	✓ 1. saturated liquid			
	<ul><li>2. saturated vapour</li><li>3. superheated vapour</li></ul>			
	× 4. compressed liquid			
		Question ID : <b>8161619647</b> Status : <b>Answered</b>		
		Chosen Option : 1		
).99	Internal energy associated with kinetic energy of molecul	lac ic		
Ans	× 1. nuclear energy			
	× 2. chemical energy			
	✓ 3. sensible energy			
	★ 4. latent energy			
	A - latent energy			
		Question ID : <b>8161619651</b>		
		Status : <b>Answered</b>		

