Junior Engineer Civil Mechanical and Electrical Examination 2024 Paper I

Roll Number	
Candidate Name	
Venue Name	
Exam Date	05/06/2024
Exam Time	1:00 PM - 3:00 PM
Subject	Junior Engineer 2024 Mechanical Paper I

Section: General Intelligence and Reasoning

Q.1 Select the correct mirror image of the given figure when the mirror is placed at MN as shown below.

F4¥XR N

Ans X 1. F 4 ¥ X R

X2. UX₹7 J

F4¥XR.E>

X4. **∀ X ₹ X ★ X**

Question ID : 630680456654

Option 1 ID : 6306801783579 Option 2 ID : 6306801783580 Option 3 ID : 6306801783581 Option 4 ID : 6306801783582

Status : Answered

Chosen Option: 3

Q.2 15 is related to 230 following a certain logic. Following the same logic, 4 is related to 65. To which of the following is 12 related following the same logic? (NOTE: Operations should be performed on the whole numbers, without breaking down the numbers into their constituent digits. E.g. 13 – Operations on 13 such as adding / subtracting /multiplying to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed.)

Ans X 1. 187

X 2. 186

3. 185

X 4. 180

Question ID: 630680451715

Option 1 ID: 6306801763946

Option 2 ID: 6306801763947

Option 3 ID : 6306801763948

Option 4 ID : **6306801763949** Status : **Answered**

394, 465, 536, 607, 678, ? **1.749** Ans X 2. 756 X 3. 736 X 4. 768 Question ID: 630680378803 Option 1 ID: 6306801476261 Option 2 ID: 6306801476259 Option 3 ID: 6306801476260 Option 4 ID: 6306801476262 Status: Answered Chosen Option: 1 Q.4 A, B, C, D, E and F are sitting around a circular table facing the centre (not necessarily in the same order). B is sitting to the immediate right of F and immediate left of C. C is sitting to the immediate left of E. A is sitting to the immediate right of E and to the immediate left of D. Who is sitting to the immediate left of F? X 1. A X 2. B X 3. C √ 4. D Question ID: 630680377010 Option 1 ID: 6306801469105 Option 2 ID: 6306801469103 Option 3 ID: 6306801469104 Option 4 ID: 6306801469106 Status: Answered Chosen Option: 4 Q.5 Select the correct option that indicates the arrangement of the following planets according to their size. 1. Mars 2. Jupiter 3. Venus 4. Earth 5. Mercury **Ans** X 1. 5, 2, 1, 3, 4 X 2. 5, 3, 4, 2, 1 X 3. 5, 4, 2, 1, 3 4. 5, 1, 3, 4, 2 Question ID: 630680565832 Option 1 ID: 6306802212276 Option 2 ID: 6306802212278 Option 3 ID: 6306802212277

> Option 4 ID : **6306802212279** Status : **Answered**

Chosen Option: 4

Q.3 What should come in place of '?' in the given series?

Q.6 In a certain code language, 'FLEW' is coded as '8462' and 'LORD' is coded as '9736'. What is the code for 'L' in the given code language? X 1.9 Ans **2**. 6 X 3.4 **X** 4. 7 Question ID: 630680377195 Option 1 ID: 6306801469844 Option 2 ID: 6306801469845 Option 3 ID: 6306801469843 Option 4 ID: 6306801469846 Status: Answered Chosen Option : 2 Q.7 Six friends Abby, Bunny, Chan, Dolly, Emma and Fanny have different weights. Dolly's weight is an odd number. Dolly is heavier than Emma but not the heaviest. Chan is heavier than Fanny but lighter than Dolly. Chan is not heavier than Emma but is heavier than Fanny and Abby. Abby's weight is not an odd number. The lightest weight is 45 kilograms and the heaviest weight is 80 kilograms. Who is the heaviest person in the group? Ans X 1. Abby 2. Bunny X 3. Chan X 4. Emma Question ID: 630680521125 Option 1 ID: 6306802036925 Option 2 ID: 6306802036927 Option 3 ID: 6306802036926 Option 4 ID: 6306802036928 Status: Answered Chosen Option: 2

Q.8 Select the option figure that can replace the question man below to complete the pattern.	k (?) in the figure given
Ans	
৵ 1.	
× 0	
X 2.	
X 3.	
× 4.	
	Question ID : 630680525486
	Option 1 ID : 6306802054029 Option 2 ID : 6306802054028
	Option 3 ID: 6306802054031
	Option 4 ID : 6306802054030 Status : Answered
	Chosen Option: 1
Q.9 LQNR is related to PURV in a certain way based on the Er the same way, OTQU is related to SXUY. To which of the f	nglish alphabetical order. In
following the same logic?	onowing is Genwi related,
Ans X 1. PKMQ	
X 2. QPMK	
X 4. PQMK	
	Question ID : 630680379505 Option 1 ID : 6306801479064
	Option 2 ID : 6306801479066
	Option 3 ID : 6306801479065
	Option 4 ID : 6306801479063 Status : Answered
	Chosen Option: 3

Q.10 Madan starts from point A and drives 4 km towards the South. He then takes a left turn and drives 5 km. he then takes a right turn and drives 2 km. He then takes another right turn and drives 3 km. He takes a final right turn and drives 6 km to reach point B. How far (shortest distance) and towards which direction should he drive to reach Point A again? (All turns are 90 degrees turns only unless specified)

Ans X 1. 3 km West

2. 2 km West

X 3. 3 km East

X 4. 2 km East

Question ID: 630680376853
Option 1 ID: 6306801468477
Option 2 ID: 6306801468475
Option 3 ID: 6306801468478
Option 4 ID: 6306801468476
Status: Answered

Chosen Option: 2

Q.11 What should come in place of the question mark (?) in the given series based on the English alphabetical order? RQO, LKI, FEC, ZYW, TSQ, ?

Ans X 1. NML

X 2. MNL

X 4. MNK

Question ID: 630680395304 Option 1 ID: 6306801541420 Option 2 ID: 6306801541422 Option 3 ID: 6306801541423 Option 4 ID: 6306801541421

Status: Answered

Chosen Option: 3

- Q.12 Select the option that indicates the arrangement of the following words in meaningful and logical order.
 - 1. Word
 - 2. Paragraph
 - 3. Sentence
 - 4. Letter
 - 5. Phrase

Ans X 1. 1, 3, 2, 4, 5

X 2. 2, 1, 5, 4, 3

X 3. 5, 1, 3, 2, 4

4. 4, 1, 5, 3, 2

Question ID : 630680404456

Option 1 ID: 6306801577324

Option 2 ID: **6306801577325** Option 3 ID: **6306801577326**

Option 4 ID : 6306801577327

Status : Answered

Q.13 142 is related to 92 following a certain logic. Following the same logic, 255 is related to 205. To which of the following is 457 related following the same logic?

(NOTE: Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits. E.g. 13 - Operations on 13 such as adding /subtracting /multiplying etc. to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed.)

1. 407 Ans

X 2. 417

X 3. 427

X 4. 437

Question ID: 630680396913 Option 1 ID: 6306801547720 Option 2 ID: 6306801547721 Option 3 ID: 6306801547722 Option 4 ID: 6306801547723

Status: Answered

Chosen Option: 1

Q.14 OB 8 is related to UE 3 in a certain way. In the same way, TO 11 is related to ZR 6. To which of the following is IB 8 related, following the same logic?

Ans √ 1. OE 3

X 2. PF -3

X 3. OF 3

X 4. PE 3

Question ID: 630680386527 Option 1 ID: 6306801506818 Option 2 ID: 6306801506821 Option 3 ID: 6306801506819 Option 4 ID: 6306801506820

Status: Answered Chosen Option: 3

Q.15 What will come in place of the question mark (?) in the following equation if '+' and '÷' are interchanged and 'x' and '-' are interchanged?

21 ÷ 15 × 52 + 13 - 7 = ?

Ans X 1. 10

X 2. 7

X 4. 12

Question ID: 630680376976

Option 1 ID: 6306801468970 Option 2 ID: 6306801468967 Option 3 ID: 6306801468969 Option 4 ID: 6306801468968

Status: Answered

Q.16	STAR is related to TWCV in a certain way based on the English alph the same way, PARK is related to QDTO. To which of the following is following the same logic?	
Ans	X 1. NLMO	
	× 2. MLNO	
	X 4. MLMO	
		Question ID: 630680376880 Option 1 ID: 6306801468586 Option 2 ID: 6306801468584 Option 3 ID: 6306801468585 Option 4 ID: 6306801468583
		Status : Answered
		Chosen Option : 3
Q.17	Select the correct mirror image of the given figure when the mirror shown below.	is placed at MN as
Ans	★ 1. ◆ 2.	
	× 3.	
	× 4.	
		Question ID: 630680524860 Option 1 ID: 6306802051539 Option 2 ID: 6306802051540 Option 3 ID: 6306802051541 Option 4 ID: 6306802051542 Status: Answered Chosen Option: 2
Q.18	IMPU is related to LPSX in a certain way based on the English alpha the same way, BEKN is related to EHNQ. To which of the following i following the same logic?	
Ans	X 1. IJSH	
	✓ 2. FOTV	
	X 3. PLNF	
	X 4. ACLK	
		Question ID : 630680377696 Option 1 ID : 6306801471843 Option 2 ID : 6306801471844 Option 3 ID : 6306801471845 Option 4 ID : 6306801471846 Status : Answered
		Chosen Option : 2

Q.19 Select the set in which the numbers are related in the same way as are the numbers of the following sets.

(NOTE: Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits. E.g. 13 – Operations on 13 such as adding /deleting /multiplying etc. to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed.) (9, 576, 8)

(7, 252, 6)

Ans X 1. (4, 82, 5)

X 2. (8, 650, 10)

X 3. (15, 210, 7)

4. (10, 40, 2)

Question ID: 630680390232

Option 1 ID : 6306801521373 Option 2 ID : 6306801521372

Option 3 ID : **6306801521371** Option 4 ID : **6306801521370**

Status: Answered

Chosen Option: 1

Q.20 What should come in place of the question mark (?) in the given series based on the English alphabetical order? INJ, LQM, OTP, RWS, ?

Ans X 1. UVZ

X 2. VUZ

X 3. VZU

Question ID : 630680376923

Option 1 ID: 6306801468756 Option 2 ID: 6306801468757

Option 3 ID : **6306801468758**

Option 4 ID: 6306801468755

Status : Answered

Q.21 Select the option in which the given figure is embedded (rotation	n is NOT allowed).
Ans	
X 1.	
X 2.	
^ 2.	
3.	
★ 4.	
	Question ID : 630680524478 Option 1 ID : 6306802050012
	Option 2 ID : 6306802050011 Option 3 ID : 6306802050014
	Option 4 ID : 6306802050013 Status : Answered
	Chosen Option : 3

English alphabetical order KMO, HJL, EGI, BDF, ? Ans X 1. ZBC X 2. ZAC X 3. YBC 4. YAC Question ID: 630680376901 Option 1 ID: 6306801468667 Option 2 ID: 6306801468670 Option 3 ID: 6306801468668 Option 4 ID: 6306801468669 Status: Answered Chosen Option: 4 Q.23 Jennifer starts from Point D and drives 3 km towards the north. She then takes a left turn and drives 10 km. She then takes another left turn and drives 6 km. She takes one more left turn and drives 5 km. She then takes a right turn and drives 3 km. She takes a final left turn and drives 5 km to reach point E. How far (shortest distance) and towards which direction should she drive in order to reach Point D again? (All turns are 90 degree turns only, unless specified) X 1. 5 km North Ans X 2. 3 km North 3. 6 km North X 4. 5 km East Question ID: 630680378906 Option 1 ID: 6306801476672 Option 2 ID: 6306801476671 Option 3 ID: 6306801476674 Option 4 ID: 6306801476673 Status: Answered Chosen Option: 3 Q.24 LQKN is related to PUOR in a certain way based on the English alphabetical order. In the same way, INHK is related to MRLO. To which of the following is QVPS related, following the same logic? Ans X 1. UZWT X 2. WZUT 3. UZTW X 4. WZTU Question ID: 630680376720 Option 1 ID: 6306801467945 Option 2 ID: 6306801467944 Option 3 ID: 6306801467946 Option 4 ID: 6306801467943

Status: Answered

Chosen Option: 3

Q.22 What should come in place of the question mark (?) in the given series based on the

Q.25 In a certain code language,

'A + B' means 'A is the brother of B',

'A - B' means 'A is the mother of B',

'A × B' means 'A is the wife of B' and

'A ÷ B' means 'A is the father of B'.

How is B related to L if 'B × G ÷ T + K - L'?

Ans

X 1. Father's father

X 2. Sister's daughter

4. Brother's daughter

Question ID : 630680377669

Option 1 ID : 6306801471736

Option 2 ID : 6306801471738

Option 3 ID : 6306801471735

Option 4 ID : 6306801471737

Status : Answered

Chosen Option: 3

Q.26 If 'A' stands for '÷', 'B' stands for 'x', 'C' stands for '+' and 'D' stands for '-', what will come in place of the question mark '?' in the following equation?

10 B 2 D 15 A 3 C 7 = ?

Ans 🧳 1. 22

X 2. 20

X 3. 21

X 4. 24

Question ID : 630680502794 Option 1 ID : 6306801964757 Option 2 ID : 6306801964758 Option 3 ID : 6306801964759 Option 4 ID : 6306801964760 Status : Answered

Chosen Option : 1

Q.27 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: All frames are rocks. All rocks are clips. All clips are towels.

Conclusion (I): All frames are towels.

Conclusion (II): At least some clips are frames.

Ans X 1. Only conclusion (I) follows

X 2. Only conclusion (II) follows

3. Both conclusions (I) and (II) follow

X 4. Neither conclusion (I) nor (II) follows

Question ID: 630680376527 Option 1 ID: 6306801467175 Option 2 ID: 6306801467176 Option 3 ID: 6306801467178 Option 4 ID: 6306801467177 Status: Answered

Q.28 What should come in place of the question mark (?) in the given series? 2, 5, 13, 28, 52, 87, ? Ans X 1. 98 **2**. 135 **X** 3. 107 **X** 4. 130 Question ID: 630680378757 Option 1 ID: 6306801476075 Option 2 ID: 6306801476078 Option 3 ID: 6306801476076 Option 4 ID: 6306801476077 Status : Answered Chosen Option : 2 Q.29 The position(s) of how many letters will remain unchanged if each of the letters in the word FOREIGN is arranged in the English alphabetical order? ✓ 1. None Ans X 2. One X 3. Two X 4. Three Question ID: 630680404425 Option 1 ID: 6306801577200 Option 2 ID: 6306801577201 Option 3 ID: 6306801577202 Option 4 ID: 6306801577203 Status : Answered Chosen Option: 1

Q.30 S	Select the option figure in which the given figure is embedded as i NOT allowed).	ts part (rotation is	
Ans			
	X 1.		
	X 2.		
	3.		
	× 4.		
		Option 1 ID : Option 2 ID : Option 3 ID : Option 4 ID :	630680422243 6306801647408 6306801647409 6306801647410 6306801647411 Answered

Q.31	Select the figure from the options that can replace the question mark (? the given pattern.) and complete
Ans		
	1.	
	× 2.	
	× 3.	
	× 4.	
		Question ID : 630680524809 Option 1 ID : 6306802051337
		Option 2 ID : 6306802051335 Option 3 ID : 6306802051338 Option 4 ID : 6306802051336
		Status : Answered Chosen Option : 1

Question ID: 630680376959
Option 1 ID: 6306801468901
Option 2 ID: 6306801468899
Option 3 ID: 6306801468900
Option 4 ID: 6306801468902
Status: Answered

Chosen Option: 3

Q.33 In a certain code language, 'SANG' is coded as '3618', and 'RANG' is coded as '6438'. What is the code for 'S' in that language?

Ans X 1.8

X 2. 6

3. 1

X 4.3

Question ID : 630680376410 Option 1 ID : 6306801466710 Option 2 ID : 6306801466708 Option 3 ID : 6306801466709 Option 4 ID : 6306801466707 Status : Answered

Chosen Option: 3

Q.34 A, B, C, D, E, and F are sitting at a circular table facing the centre (not necessarily in the same order). A is to the immediate left of B, E is third to the right of B, D is to the immediate right of C. F is third to the right of C. Who are the immediate neighbours of E?

a)A and B

b)B and D

c)D and F

d)F and B

Ans X 1. (d)

X 2. (b)

√ 3. (c)

X 4. (a)

Question ID : **630680376401** Option 1 ID : **6306801466674**

Option 2 ID : **6306801466672** Option 3 ID : **6306801466673**

Option 4 ID : **6306801466671**

Status : Answered

Q.35 Select the word-pair that best represents a similar relationship to the one expressed in the pair of words given below.

(The words must be considered as meaningful English words and must not be related to each other based on the number of letters/number of consonants/vowels in the word.)

Mycology: Fungi

Ans 1. Seismology: Earthquakes

2. Ornithology : Eggs3. Paedology : Planets

X 4. Entomology : Birds

Question ID : 630680556091 Option 1 ID : 6306802173740 Option 2 ID : 6306802173742 Option 3 ID : 6306802173743 Option 4 ID : 6306802173741

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

Q.36 What should come in place of the question mark (?) in the given series based on the English alphabetical order?

LXC, OZD, RBE, UDF, ?

Ans X 1. YGH

X 2. ZDI

X 3. XHJ

4. XFG

Question ID: 630680386936 Option 1 ID: 6306801508455 Option 2 ID: 6306801508456 Option 3 ID: 6306801508457 Option 4 ID: 6306801508454 Status: Answered

Chosen Option : 4

Q.37 In a certain code language, 'apple is healthy' is written as 'di jl ew' and 'apple is red' is written as 'di ko ew'. How is 'red' written in the given language?

Ans 💢 1. di

X 2. jl

X 3. ew

√ 4. ko

Question ID : 630680388165

Option 1 ID : 6306801513222 Option 2 ID : 6306801513225 Option 3 ID : 6306801513224 Option 4 ID : 6306801513223

Status : Answered

Q.38 **1.** 13 X 2. 14 **X** 3. 11 X 4. 12 Question ID: 630680524413 Option 1 ID: 6306802049753 Option 2 ID: 6306802049754 Option 3 ID: 6306802049751 Option 4 ID: 6306802049752 Status: Answered Chosen Option: 1 Q.39 What will come in the place of the question mark (?) in the following equation, if '+' and 'x' are interchanged and '-' and '÷' are interchanged? $12 + 4 - 24 \times 11 \div 13 = ?$ Ans X 1. -20 X 2. 10 **3**. 0 X 4. -10 Question ID: 630680377614 Option 1 ID: 6306801471515 Option 2 ID: 6306801471518 Option 3 ID: 6306801471517 Option 4 ID: 6306801471516 Status: Answered Chosen Option: 3 Q.40 What should come in place of the question mark (?) in the given series. 6, 3, 12, 6, 24, ?, 48, 24, 96 Ans X 1.48 **2**. 12 **X** 3. 6 X 4. 24 Question ID: 630680379055 Option 1 ID: 6306801477270 Option 2 ID: 6306801477269 Option 3 ID: 6306801477267 Option 4 ID: 6306801477268 Status: Answered Chosen Option: 2

ns	In a certain code language, 'HAIR' is coded as '7935' and What is the code for 'A' in the given language? X 1. 3	
115		
	X 2. 4	
	★ 3. 5	
	✓ 4. 9	
		Question ID : 630680376549
		Option 1 ID : 6306801467263
		Option 2 ID : 6306801467266
		Option 3 ID : 6306801467264
		Option 4 ID : 6306801467265
		Status : Answered
		Chosen Option : 4
42 \.ns	What will come in the place of the question mark (?) in t '÷' are interchanged and '*' and '-' are interchanged? 10 + 2 - 10 ÷ 5 × 10 =?	he following equation, if '+' and
	✓ 2. 45	
	× 3. 35	
	X 4. 32	
		Question ID : 630680377708
		Option 1 ID : 6306801471892
		Option 2 ID : 6306801471893
		Option 3 ID : 6306801471894 Option 4 ID : 6306801471891
		Status : Answered
		Chosen Option : 2
1 42	The position(s) of how many letters will remain unchang	
4.43		
	word STAMPED is arranged in the English alphabetical	
	word STAMPED is arranged in the English alphabetical of 1. Two	
	word STAMPED is arranged in the English alphabetical 1. Two 2. Three	
	word STAMPED is arranged in the English alphabetical of 1. Two	
	word STAMPED is arranged in the English alphabetical 1. Two 2. Three	
	word STAMPED is arranged in the English alphabetical 1. Two 1. Two 2. Three 3. Four	order?
	word STAMPED is arranged in the English alphabetical 1. Two 1. Two 2. Three 3. Four	Question ID : 630680396640
	word STAMPED is arranged in the English alphabetical 1. Two 1. Two 2. Three 3. Four	order?
	word STAMPED is arranged in the English alphabetical 1. Two 1. Two 2. Three 3. Four	Question ID : 630680396640
Ans	word STAMPED is arranged in the English alphabetical 1. Two 1. Two 2. Three 3. Four	Question ID : 630680396640
	word STAMPED is arranged in the English alphabetical 1. Two 1. Two 2. Three 3. Four	Question ID : 630680396640
	word STAMPED is arranged in the English alphabetical 1. Two 1. Two 2. Three 3. Four	Question ID : 630680396640
	word STAMPED is arranged in the English alphabetical 1. Two 1. Two 2. Three 3. Four	Question ID : 630680396640
	word STAMPED is arranged in the English alphabetical 1. Two 1. Two 2. Three 3. Four	Question ID : 630680396640
	word STAMPED is arranged in the English alphabetical 1. Two 1. Two 2. Three 3. Four	Question ID : 630680396640
	word STAMPED is arranged in the English alphabetical 1. Two 1. Two 2. Three 3. Four	Question ID : 630680396640

Q.44 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 conclusion(s) logically follow(s) from the statements.

Statements: Some cars are grass. All trucks are cars.

Conclusion 1: Some trucks are not cars. Conclusion 2: Some trucks are grass.

Ans 1. Neither conclusion 1 nor 2 follows

X 2. Only conclusion 1 follows

X 3. Only conclusion 2 follows

X 4. Both conclusion 1 and 2 follow

Question ID: 630680381042 Option 1 ID: 6306801485145 Option 2 ID: 6306801485143 Option 3 ID: 6306801485144 Option 4 ID: 6306801485146

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

Q.45 Select the option in which the numbers share the same relationship as that shared by the given number triads.

120-100-60

240-220-180

(NOTE: Operations should be performed on the whole number, without breaking down the numbers into its constituent digits. E.g. 13- Operations on 13 such as adding/subtracting/multiplying etc. to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is NOT allowed.)

Ans X 1. 220-210-200

X 2. 150-160-140

X 3. 90-80-75

4. 200-180-140

Question ID: 630680387173 Option 1 ID: 6306801509387 Option 2 ID: 6306801509388 Option 3 ID: 6306801509389

Option 3 ID : 6306801509389 Option 4 ID : 6306801509386 Status : Answered

Chosen Option: 4

Q.46 Select the set in which the numbers are related in the same way as are the numbers of the following sets.

(NOTE: Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits. E.g. 13 – Operations on 13 such as adding/subtracting/multiplying etc. to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed.) (45, 23, 73)

(19, 27, 51)

Ans X 1. (31, 17, 48)

X 2. (22, 29, 52)

3. (16, 14, 35)

X 4. (12, 19, 30)

Question ID: 630680376817

Option 1 ID: 6306801468333

Option 2 ID: 6306801468332

Option 3 ID: 6306801468334

Option 4 ID : **6306801468331** Status : **Answered**

Q.47 This question consists of a pair of words which have a certain relationship to each other. Select the pair which has the same relationship.

(The words must be considered as meaningful English words and must not be related to each other based on the number of letters/number of consonants/vowels in the word.)

Altimeter : Altitudes

Ans 1. Hygrometer : Humidity

X 2. Protractor : Light

X 3. Fathometer : Presure

X 4. Taseometer : Wind

Question ID: 630680556096 Option 1 ID: 6306802173761 Option 2 ID: 6306802173762 Option 3 ID: 6306802173760 Option 4 ID: 6306802173763

Status : Answered

Chosen Option: 1

Q.48 What should come in place of the question mark (?) in the given series based on the English alphabetical order?

DMY, BKW, ZIU, XGS, ?

Ans X 1. UDP

X 2. UFR

X 4. WCR

Question ID: 630680382493 Option 1 ID: 6306801490889 Option 2 ID: 6306801490888 Option 3 ID: 6306801490890 Option 4 ID: 6306801490887

Status : **Answered** Chosen Option : **3**

Q.49

Ans X 1. MVT

2. MUT

X 3. MXT

X 4. MNT

Question ID: 630680378698 Option 1 ID: 6306801475839 Option 2 ID: 6306801475842 Option 3 ID: 6306801475841 Option 4 ID: 6306801475840

Status : Answered

Q.50 In the following number-pairs, the second number is obtained by applying certain mathematical operations to the first number. Select the set in which the numbers are related in the same way as are the numbers of the following sets. (NOTE: Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits. E.g., 13 - Operations on 13 such as adding/subtracting/multiplying etc. to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed.) (6.34)(8, 46)Ans X 1. (7, 38)

X 2. (4, 24)

X 3. (12, 76)

4. (10, 58)

Question ID: 630680377730 Option 1 ID: 6306801471981 Option 2 ID: 6306801471982 Option 3 ID: 6306801471980 Option 4 ID: 6306801471979 Status: Answered

Chosen Option: 4

Section: General Awareness

Q.1 To cherish and follow the noble ideals that inspired our national struggle for freedom _ fundamental duty in the list of fundamental duties enshrined in our Indian Constitution.

Ans X 1. first

2. second

X 3. third

X 4. fourth

Question ID: 630680493470 Option 1 ID: 6306801927619 Option 2 ID: 6306801927620 Option 3 ID: 6306801927621 Option 4 ID: 6306801927622 Status: Answered

Chosen Option: 3

Q.2 Who was the leader of the temple entry movement in 1930 at Kalaram temple, Nashik?

Ans X 1. Swami Achhutanand

X 2. NG Ranga

X 3. Mahatma Gandhi

4. Dr. BR Ambedkar

Question ID: 630680572381 Option 1 ID: 6306802238364 Option 2 ID: 6306802238365 Option 3 ID: 6306802238366 Option 4 ID: 6306802238367

Status: Answered

Q.3 What is the primary focus of the ASPIRE scheme of the Ministry of Micro, Small & Medium Enterprises, Government of India?

Ans X 1. Urban development

X 2. Technology innovation

X 3. Environmental conservation

4. Establishment of livelihoods business incubation centres

Question ID: 630680488098 Option 1 ID: 6306801906451 Option 2 ID: 6306801906452 Option 3 ID: 6306801906453 Option 4 ID: 6306801906454 Status: Answered

Chosen Option: 4

Q.4 Who said "a cherry that will drop into our mouth one day" about the kingdom of Awadh?

Ans X 1. Lord Lytton

X 2. Lord Curzon

X 3. Lord Mountbatten

4. Lord Dalhousie

Question ID: 630680511542
Option 1 ID: 6306801999292
Option 2 ID: 6306801999290
Option 3 ID: 6306801999293
Option 4 ID: 6306801999291
Status: Answered

Chosen Option: 4

Q.5 Who among the following musicians received the Padma Bhushan Award 2022 for his contributions in the field of art?

Ans 🗳 1. Rashid Khan

X 2. Madan Singh Chauhan

X 3. Manilal Nag

X 4. Chhannulal Mishra

Question ID : 630680701418 Option 1 ID : 6306802747612 Option 2 ID : 6306802747610 Option 3 ID : 6306802747609 Option 4 ID : 6306802747611 Status : Answered

- Q.6 Match the following states with their percentage urban population in India, as per Census 2011.
 - i) Kerala a) 10.04%
 - ii) Madhya Pradesh b) 47.72%
 - iii) Tamil Nadu c) 27.63%
 - iv) Himachal Pradesh d) 48.45%

Ans X 1. i) d, ii) c, iii) b, iv) a

- X 2. i) a, ii) d, iii) c, iv) b
- 3. i) a, ii) b, iii) c, iv) d
- 4. i) b, ii) c, iii) d, iv) a

Question ID: 630680488637

Option 1 ID: 6306801908567

Option 2 ID: 6306801908568

Option 3 ID: 6306801908569

Option 4 ID: 6306801908570

Status : Answered

Chosen Option: 1

Q.7 The valency of Ca is 2⁺. The valency of O is 2⁻. What is the simplified chemical formula of Calcium oxide?

Ans X 1. Ca₂O₂

2. CaO

X 3. CaO₂

X 4. Ca₂O

Question ID : 630680401862

Option 1 ID: 6306801567218

Option 2 ID: 6306801567219

Option 3 ID : **6306801567220** Option 4 ID : **6306801567221**

Status : Answered

Chosen Option : 2

Q.8 Arachnids belong to which subphylum of the phylum Arthropoda?

Ans X 1. Crustacea

X 2. Hexapoda

3. Chelicerata

X 4. Myriapoda

Question ID: 630680540420

Option 1 ID: 6306802112768

Option 2 ID: 6306802112770

Option 3 ID : **6306802112767** Option 4 ID : **6306802112769**

Status : Answered

Q.9	Which of the following values is subtracted from the numerical expressed in Kelvin to obtain the temperature in degrees Celsic	
Ans	X 1. 293	
	✓ 2. 273	
	X 3. 253	
	X 4. 313	
		Question ID: 630680403022 Option 1 ID: 6306801571661 Option 2 ID: 6306801571660 Option 3 ID: 6306801571659 Option 4 ID: 6306801571662 Status: Answered Chosen Option: 2
Q.10 Ans	Identify the INCORRECT pair (railway zone and headquarters) for X 1. North Western Railway Zone – Jaipur	rom the following.
	X 2. South Western Railway Zone – Hubli	
	★ 4. South-East Central Railway Zone – Bilaspur	
		Question ID: 630680510977 Option 1 ID: 6306801997039 Option 2 ID: 6306801997040 Option 3 ID: 6306801997038 Option 4 ID: 6306801997041 Status: Answered Chosen Option: 3
Q.11	Which compound is used to neutralise fatty acids and convert to process called saponification?	hem into salts in a
Ans	✓ 1. Sodium hydroxide	
	X 2. Sodium acetate	
	X 3. Sodium chlorate	
	X 4. Sodium fluoride	
		Question ID: 630680403012 Option 1 ID: 6306801571620 Option 2 ID: 6306801571619 Option 3 ID: 6306801571622 Option 4 ID: 6306801571621 Status: Answered Chosen Option: 1
Q.12	Sange Meel Se Mulaqat is a documentary on the life of Gautam Ghosh.	, directed by
Ans	X 1. Pandit Ram Narayan	
	✓ 2. Pandit Bismillah Khan	
	X 3. Pandit Biswajit Roy Chowdhury	
	3. Paridit biswajit Roy Criowdridry	
	X 4. Pandit Bhimsen Joshi	

Q.13 Which of the following sentences is/are correct?

i. According to the Census of India 2011, the total population of India is 141 crores.

ii. Between 1911 and 1921, there was a negative rate of growth of India's population.

iii. Between 1901 and 1951, the average annual growth of India's population did not exceed 1.33%.

Ans X 1. Only i and ii

X 2. Only i and iii

X 3. Only i

4. Only ii and iii

Question ID: 630680488238
Option 1 ID: 6306801907011
Option 2 ID: 6306801907012
Option 3 ID: 6306801907013
Option 4 ID: 6306801907014

Status: Answered

Chosen Option: 4

Q.14 How do estuaries serve as critical habitats for various species?

Ans X 1. Estuaries have no ecological significance.

2. Estuaries provide breeding grounds and nurseries for marine organisms.

X 3. Estuaries contribute to desertification.

X 4. Estuaries are only important for recreational activities.

Question ID: 630680615281 Option 1 ID: 6306802407798 Option 2 ID: 6306802407799 Option 3 ID: 6306802407800

Option 4 ID : **6306802407801** Status : **Answered**

Chosen Option : 2

Q.15 Who was elected as the 16th Speaker of the Himachal Pradesh Legislative Assembly in January 2023?

Ans 1. Kuldeep Singh Pathania

X 2. Anurag Thakur

X 3. Jai Ram Thakur

X 4. Suresh Bhardwaj

Question ID: 630680804277

Option 1 ID : **6306803150840** Option 2 ID : **6306803150841** Option 3 ID : **6306803150839**

Option 4 ID : 6306803150842

Status : Answered

Q.16 The particles that form the main part of the nucleus of an atom are together known as:

X 1. ions

X 2. electrons

3. nucleons

X 4. isotopes

Question ID: 630680401910 Option 1 ID: 6306801567387 Option 2 ID: 6306801567386 Option 3 ID: 6306801567389 Option 4 ID: 6306801567388

Status: Answered

Chosen Option: 3

Q.17 The office of the Registrar General and Census Commissioner works under which Ministry of Government of India?

Ans X 1. Ministry of Finance

X 2. Ministry of Personnel, Public Grievances and Pensions

3. Ministry of Home Affairs

4. Ministry of Social Justice and Empowerment

Question ID: 630680477183 Option 1 ID: 6306801863901 Option 2 ID: 6306801863902 Option 3 ID: 6306801863903

Option 4 ID: 6306801863904 Status: Answered

Chosen Option: 1

Q.18 When was Swami Vivekananda born?

Ans X 1. 12 January 1866

X 2. 12 January 1859

3. 12 January 1863

X 4. 12 January 1853

Question ID: 630680511596 Option 1 ID: 6306801999509 Option 2 ID: 6306801999507 Option 3 ID: 6306801999508

Option 4 ID: 6306801999506 Status: Answered

Chosen Option: 1

Q.19 Which are the two major branches of the southwest monsoon in India?

Ans

√ 1. The Arabian Sea branch and the Bay of Bengal branch

X 2. The Arabian Sea branch and the Tibetan plateau branch

X 3. The Himalayan Mountain branch and the Gulf of Mannar branch

X 4. The Tibetan plateau branch and the Bay of Bengal branch

Question ID: 630680510958

Option 1 ID: 6306801996962 Option 2 ID: 6306801996963

Option 3 ID: 6306801996965 Option 4 ID: 6306801996964

Status: Answered

X 1. Watt X 2. Joule X 3. Volt 4. Newton Question ID: 630680407778 Option 1 ID: 6306801590051 Option 2 ID: 6306801590050 Option 3 ID: 6306801590052 Option 4 ID: 6306801590053 Status: Answered Chosen Option: 4 Q.21 If an earthquake happens at the sea floor and one tectonic plate dips under the another, this will most probably lead to a natural disaster known as: Ans X 1. Typhoon X 2. Tornado 3. Tsunami X 4. Cyclone Question ID: 630680546842 Option 1 ID: 6306802137938 Option 2 ID: 6306802137937 Option 3 ID: 6306802137935 Option 4 ID: 6306802137936 Status: Answered Chosen Option: 3 Q.22 Which of the following committees was responsible for making recommendations that led to the 42nd Constitutional Amendment for the declaration of Fundamental Duties? √ 1. Swaran Singh Committee Ans X 2. Abid Hussain Committee X 3. Khusro Committee X 4. Raja Chelliah Committee Question ID: 630680618079 Option 1 ID: 6306802418621 Option 2 ID: 6306802418622 Option 3 ID: 6306802418623 Option 4 ID: 6306802418624 Status: Answered Chosen Option: 1

Q.20 What is the SI unit of force?

Q.23 The government of which of the following states launched the 'Nand Baba Milk Mission' scheme in June 2023? X 1. Bihar Ans X 2. Madhya Pradesh X 3. Himachal Pradesh 4. Uttar Pradesh Question ID: 630680513786 Option 1 ID: 6306802007772 Option 2 ID: 6306802007770 Option 3 ID: 6306802007771 Option 4 ID: 6306802007769 Status: Answered Chosen Option : 2 Q.24 In 1800, which of the following experimental achievements was made by William Nicholson? ✓ 1. Discovery of water electrolysis Ans X 2. Discovery of thermionic emission X 3. Discovery of electric bulb X 4. Discovery of low-cost filters for polarizing light Question ID: 630680402063 Option 1 ID: 6306801567951 Option 2 ID: 6306801567953 Option 3 ID: 6306801567950 Option 4 ID: 6306801567952 Status: Answered Chosen Option: 1 Q.25 Which of the following is a heart-related disease? Ans X 1. Acromegaly X 2. Diabetes X 3. Goiter 4. Angina Question ID: 630680544738

Option 1 ID : 6306802129715 Option 2 ID : 6306802129714 Option 3 ID : 6306802129716 Option 4 ID : 6306802129717 Status : Answered

Q.26 What is the primary function of the Golgi apparatus?

Ans X 1. Lipid production

2. Sorting and packaging of cellular products

X 3. Cellular respiration

X 4. Protein synthesis

Question ID: 630680540550 Option 1 ID: 6306802113276 Option 2 ID: 6306802113277 Option 3 ID: 6306802113278 Option 4 ID: 6306802113275 Status: Answered

Chosen Option: 2

Q.27 Which of the following is the shortcut key to create a new paragraph in MS Word?

Ans X 1. Ctrl + N

X 2. Ctrl + P

X 4. Shift + Enter

Question ID: 630680571752 Option 1 ID: 6306802235916 Option 2 ID: 6306802235917 Option 3 ID: 6306802235918 Option 4 ID: 6306802235919 Status: Answered

Chosen Option: 3

Q.28 Which of the following is/are a gymnosperm?

Ans X 1. Mosses

X 2. Fern

X 3. Rose

4. Cycas

Question ID: 630680542129 Option 1 ID: 6306802119459 Option 2 ID: 6306802119460 Option 3 ID: 6306802119458 Option 4 ID: 6306802119457

Status: Answered

Chosen Option: 2

Q.29 Which of the following is the correct option for using 'justify' alignment to a paragraph in a document?

Ans X 1. Aligns text only to the left

X 2. Aligns text only to the right

3. Aligns text to both left and right edges

X 4. Align text in the center

Question ID: 630680571762 Option 1 ID: 6306802235952 Option 2 ID: 6306802235953 Option 3 ID: 6306802235954 Option 4 ID: 6306802235955 Status: Answered

Q.30 Which of the following Ministers introduced the Central Goods and Services Tax (Amendment) Bill 2023 and the Integrated Goods and Services Tax (Amendment) Bill 2023 in the Lok Sabha?

Ans 💜 1. Nirmala Sitharaman

X 2. Harpal Singh

X 3. Bikram Keshari Arukha

X 4. Manohar Lal Khattar

Question ID: 630680469607 Option 1 ID: 6306801834191 Option 2 ID: 6306801834192 Option 3 ID: 6306801834193 Option 4 ID: 6306801834194 Status: Answered

Chosen Option: 1

Q.31 Which of the following bacterial infections often affects the lungs?

Ans 1. Tuberculosis

X 2. Herpes

X 3. Meningitis

X 4. Influenza

Question ID: 630680404156 Option 1 ID: 6306801576110 Option 2 ID: 6306801576111 Option 3 ID: 6306801576112 Option 4 ID: 6306801576113 Status: Answered

Chosen Option: 1

Q.32 Which Chief Justice of India was sworn in as the acting President of India on 20th July

Ans X 1. Justice Harilal Jekisundas Kania

X 2. Justice M Patanjali Sastri

💢 3. Justice Sudhi Ranjan Das

Question ID: 630680407827 Option 1 ID: 6306801590246 Option 2 ID: 6306801590247 Option 3 ID: 6306801590248 Option 4 ID: 6306801590249 Status: Answered

Chosen Option: 4

Q.33 _____ is referred to as paper taxes.

Ans 💚 1. Gift tax

X 2. Corporation tax

X 3. Customs duty

X 4. Excise tax

Question ID: 630680402051
Option 1 ID: 6306801567904
Option 2 ID: 6306801567905
Option 3 ID: 6306801567906
Option 4 ID: 6306801567907
Status: Answered

Q.34 Name the scheme launched by the Prime Minister on 17 September 2023 that aims to improve the lives of artisans. 1. PM Vishwakarma Ans X 2. PM Shilpgram X 3. PM Anantakalpaaya X 4. PM Kalashi Question ID: 630680411164 Option 1 ID: 6306801603412 Option 2 ID: 6306801603413 Option 3 ID: 6306801603414 Option 4 ID: 6306801603415 Status: Answered Chosen Option: 1 Q.35 Name the first Finance Minister of independent India, whose statue was inaugurated by the Union Textiles Minister in Coimbatore . √ 1. RK Shanmugam Chetty Ans X 2. CD Deshmukh X 3. TT Krishnamachari X 4. Sachindra Chaudhuri Question ID: 630680412664 Option 1 ID: 6306801609479 Option 2 ID: 6306801609480 Option 3 ID: 6306801609481 Option 4 ID: 6306801609482 Status: Answered Chosen Option: 2 Q.36 Which of the following is a macronutrient? Ans X 1. Vitamins 2. Carbohydrates X 3. Minerals X 4. Antioxidants Question ID: 630680411618 Option 1 ID: 6306801605307 Option 2 ID: 6306801605308

Option 3 ID: 6306801605309 Option 4 ID: 6306801605310 Status: Answered

Chosen Option: 2

Q.37 It is a fact that if you drink from a plastic bottle and throw it in the dustbin, it will still be there when your grandchildren are old. What is the reason behind this?

X 1. Plastics are biodegradable. Ans

X 2. Plastics are radioactive.

3. Plastics are non-biodegradable.

4. Plastics are heavy metals.

Question ID: 630680403334 Option 1 ID: 6306801572845 Option 2 ID: 6306801572846 Option 3 ID: 6306801572847 Option 4 ID: 6306801572848 Status: Answered

Q.38 Which of the following articles of the Constitution of India provides measures to ensure the enforcement of Fundamental Rights? Ans 1. Article 32 X 2. Article 19 X 3. Article 14 X 4. Article 29 Question ID: 630680511439 Option 1 ID: 6306801998889 Option 2 ID: 6306801998887 Option 3 ID: 6306801998886 Option 4 ID: 6306801998888 Status: Answered Chosen Option: 1 Q.39 Private income minus tax payment minus non-tax payment will give us the estimate for X 1. private income X 2. gross income 3. personal disposable income X 4. national income Question ID: 630680512477 Option 1 ID: 6306802002879 Option 2 ID: 6306802002880 Option 3 ID: 6306802002878 Option 4 ID: 6306802002881 Status: Answered Chosen Option: 3 Q.40 Who introduced the Anusandhan National Research Foundation Bill, 2023, in the Lok 1. Dr. Jitender Singh Ans X 2. Gopal Rai X 3. Imran Hussain X 4. Piyush Goyal Question ID: 630680469598 Option 1 ID: 6306801834155 Option 2 ID: 6306801834156 Option 3 ID: 6306801834157 Option 4 ID: 6306801834158 Status: Answered Chosen Option: 1 Q.41 Narmada Bachao Andolan (Save Narmada Movement) is a/an _ 1. Social movement Ans X 2. forest conservation movement X 3. government initiative X 4. project of Jal Shakti Ministry Question ID: 630680564468 Option 1 ID: 6306802206804 Option 2 ID: 6306802206805 Option 3 ID: 6306802206803 Option 4 ID: 6306802206806 Status: Answered

Q.42 You grew a small plant in a planter. On maturity, you observed that the plant has green stem, very few branches and the stem is so soft that you could easily break it with your hands. Under which category will you put this plant? Ans X 1. Tree X 2. Creeper X 3. Shrub 4. Herb Question ID: 630680403058 Option 1 ID: 6306801571801 Option 2 ID: 6306801571802 Option 3 ID: 6306801571803 Option 4 ID: 6306801571804 Status: Answered Chosen Option: 4 Q.43 Who among the following is the author of the book published in December 2021, 'The Monk Who Transformed Uttar Pradesh'? X 1. Yashika Dutta Ans 2. Shantanu Gupta X 3. Shashi Tharoor X 4. Amish Tripathi Question ID: 630680394949 Option 1 ID: 6306801540065 Option 2 ID: 6306801540064 Option 3 ID: 6306801540067 Option 4 ID: 6306801540066 Status: Answered Chosen Option : 1 Q.44 The total number of bishops in a chess game is _ Ans X 1. one X 2. two X 3. three 4. four Question ID: 630680430544 Option 1 ID: 6306801680197 Option 2 ID: 6306801680198 Option 3 ID: 6306801680199 Option 4 ID: 6306801680200 Status: Answered Chosen Option: 4 Q.45 In plant cells, which organelle is responsible for photosynthesis? 1. Chloroplast X 2. Mitochondrion X 3. Lysosome X 4. Peroxisome Question ID: 630680411646 Option 1 ID: 6306801605419 Option 2 ID: 6306801605420 Option 3 ID: 6306801605421 Option 4 ID: 6306801605422 Status: Answered

Q.47 Which of the following places receives rainfall from the Bay of Bengal branch of southwest monsoon?

Ans X 1. Ratnagiri

2. Kolkata

X 3. Surat

\chi 4. Panaji

Question ID: 630680511048 Option 1 ID: 6306801997323 Option 2 ID: 6306801997322 Option 3 ID: 6306801997325 Option 4 ID: 6306801997324 Status: Answered

Chosen Option : 2

Chosen Option: 3

Q.48 During which years did Khalji dynasty ruled over Delhi?

Ans X 1. 1451 - 1526

X 2. 1414 - 1451

X 3. 1320 - 1414

4. 1290 - 1320

Question ID: 630680511634 Option 1 ID: 6306801999661 Option 2 ID: 6306801999660 Option 3 ID: 6306801999659 Option 4 ID: 6306801999658

Status : Answered

Chosen Option: 3

Q.49 The National Defense Fund is governed by an Executive Committee, which is chaired by the:

Ans X 1. President

2. Prime Minister

X 3. Vice President

X 4. Defence Minister

Question ID : 630680493649 Option 1 ID : 6306801928324 Option 2 ID : 6306801928325 Option 3 ID : 6306801928326 Option 4 ID : 6306801928327 Status : Answered

Q.50 Which organelle contains enzymes for digesting cellular waste and foreign materials? X 1. Nucleus X 2. Mitochondrion 3. Lysosome X 4. Vacuole Question ID: 630680411632 Option 1 ID: 6306801605363 Option 2 ID: 6306801605364 Option 3 ID: 6306801605365 Option 4 ID: 6306801605366 Status: Answered Chosen Option: 3 Section : General Engineering Mechanical Q.1 In the vapour compression refrigeration cycle with dry saturated vapour after compression, the entropy at the end of compression is the same as the X 1. entropy at the end of condensation Ans 2. entropy at the end of evaporation X 3. entropy at the end of expansion X 4. entropy at the start of expansion Question ID: 630680506398 Option 1 ID: 6306801979105 Option 2 ID: 6306801979107 Option 3 ID: 6306801979106 Option 4 ID: 6306801979108 Status: Answered Chosen Option: 2 Q.2 In which of the following compressors, the top cover is bolted to the compressor housing instead of the welded steel shell? ✓ 1. Semi-hermetic sealed compressor Ans X 2. Hermetic sealed compressor X 3. Axial compressor X 4. Open compressor Question ID: 630680506436 Option 1 ID: 6306801979258 Option 2 ID: 6306801979257 Option 3 ID: 6306801979260 Option 4 ID: 6306801979259 Status: Answered Chosen Option: 4

	√ 1. Semi-open impellers	
	X 2. Closed impellers	
	→ 3. Semi-closed impellers	
	X 4. Open impellers	
		Question ID : 630680508726 Option 1 ID : 6306801988207
		Option 2 ID : 6306801988205
		Option 3 ID : 6306801988206
		Option 4 ID : 6306801988204 Status : Answered
		Chosen Option : 2
4	The given figure shows the p-V diagram of:	
ns	X 1. vapour absorption refrigeration system	
ns	1. vapour absorption refrigeration system2. aircraft refrigeration system	
ns	X 2. aircraft refrigeration system	
ns	2. aircraft refrigeration system3. Electrolux refrigeration system	
ns	X 2. aircraft refrigeration system	
ns	2. aircraft refrigeration system3. Electrolux refrigeration system	Question ID : 630680332164
ns	2. aircraft refrigeration system3. Electrolux refrigeration system	Option 1 ID : 6306801292102
ns	2. aircraft refrigeration system3. Electrolux refrigeration system	Option 1 ID : 6306801292102 Option 2 ID : 6306801292104
ns	2. aircraft refrigeration system3. Electrolux refrigeration system	Option 1 ID : 6306801292102 Option 2 ID : 6306801292104 Option 3 ID : 6306801292103
ns	2. aircraft refrigeration system3. Electrolux refrigeration system	Option 1 ID : 6306801292102 Option 2 ID : 6306801292104

Q.5	5 Calculate the polar moment of inertia and the maximum torque transmitted by a solid shaft of diameter 100 mm and length 1.0 m. Let the angle of twist be 2° and the modulus of rigidity, G = 80 GPa.	
Ans	X 1.	
	X 2.	
	✓ 3.	
	× 4.	
		Question ID : 630680205982
		Option 1 ID : 630680798731 Option 2 ID : 630680798734
		Option 3 ID : 630680798733
		Option 4 ID : 630680798732
		Status : Answered
		Chosen Option : 3
Q.6 Ans	Which of the following is the assumption of Air Standard Cycles? 1. The working medium is assumed to be a real gas	
Alls	X 2. Heat is assumed to be supplied from chemical reactions during the	ne cycle
	3. Some heat is assumed to be rejected to a constant low temperat	
	X 4. The working medium has variable specific heat with varying temp	erature
		Question ID : 630680502664
		Option 1 ID : 6306801964238
		Option 2 ID : 6306801964239
		Option 3 ID : 6306801964241
		Option 4 ID : 6306801964240
		Status : Answered
		Chosen Option : 3
Q.7	Which of the following is the effect of frictional resistance to the flow	w of the steam jet
	over the blade in steam turbines?	,
Ans	✓ 1. The velocity of flow at the outlet to the moving blade is less than inlet to the moving blade.	
	X 2. The velocity of flow at the outlet to the moving blade is equal to the to the moving blade.	
	★ 3. The velocity of flow at the outlet to the moving blade is greater that inlet to the moving blade.	an that of flow at the
	X 4. There is no effect of frictional resistance to the flow of the steam j	et over the blade.
		Overetion ID + 02000050207
		Question ID : 630680502687
		Option 1 ID : 6306801964331 Option 2 ID : 6306801964330
		Option 3 ID : 6306801964332
		Option 4 ID : 6306801964333
		Status : Answered
		Chosen Option : 1

Q.8

Determine the stress induced in the steel bars of reinforced concrete structure, if the modular ratio for steel and concrete is 14.5 and the stress applied on the concrete is 2.5 MPa.

Ans X 1. 42.75 MPa

X 2. 30.25 MPa

X 3. 24.50 MPa

Question ID: 630680327982
Option 1 ID: 6306801275899
Option 2 ID: 6306801275900
Option 3 ID: 6306801275898
Option 4 ID: 6306801275897
Status: Answered

Chosen Option: 4

Q.9 Under which of the following conditions does the Francis turbine operate?

Ans 1. Medium head and medium discharge

X 2. High head and high discharge

X 3. High head and low discharge

X 4. Low head and high discharge

Question ID: 630680193066 Option 1 ID: 630680748802 Option 2 ID: 630680748804 Option 3 ID: 630680748801 Option 4 ID: 630680748803 Status: Answered

Chosen Option : 1

Q.10 The function of a halide torch is:

Ans X 1. superheating the vapour refrigerant

X 2. defrosting of the cooling coil

X 3. facilitating better lubrication in the refrigerator

Question ID : 630680506409 Option 1 ID : 6306801979150 Option 2 ID : 6306801979149 Option 3 ID : 6306801979151 Option 4 ID : 6306801979152 Status : Answered

	If N is the speed of the compressor in RPM, then what wi a double acting compressor? Where W = work required by		
ns			
	X 2. WN/2		
	★ 4. WN		
		Question ID: 630680506433	
		Option 1 ID : 6306801979246	
		Option 2 ID : 6306801979248	
		Option 3 ID : 6306801979247	
		Option 4 ID : 6306801979245	
		Status : Answered	
		Chosen Option : 3	
.12	In a hot working process, metals are deformed		
ns	X 1. at their recrystallisation temperature		
	2. above their recrystallisation temperature		
	★ 3. below their recrystallisation temperature		
	X 4. at any recrystallisation temperature		
		Ougstion ID : 620690502220	
		Question ID : 630680503239 Option 1 ID : 6306801966543	
		Option 2 ID : 6306801966541	
		Option 3 ID : 6306801966542	
		Option 4 ID : 6306801966544	
		Status : Answered	
		Chosen Option: 2	
Q.13	For the laminar flow through circular pipes, shear stress		
.13 .ns	For the laminar flow through circular pipes, shear stress is 1. parabolic 2. cubic 3. logarithmic 4. linear		
	is X 1. parabolic X 2. cubic X 3. logarithmic	distribution across a section	
	is X 1. parabolic X 2. cubic X 3. logarithmic	distribution across a section Question ID: 630680193038	
	is X 1. parabolic X 2. cubic X 3. logarithmic	distribution across a section	
	is X 1. parabolic X 2. cubic X 3. logarithmic	Question ID : 630680193038 Option 1 ID : 630680748690	
	is X 1. parabolic X 2. cubic X 3. logarithmic	Question ID : 630680193038 Option 1 ID : 630680748690 Option 2 ID : 630680748692	
	is X 1. parabolic X 2. cubic X 3. logarithmic	Question ID : 630680193038	
	is X 1. parabolic X 2. cubic X 3. logarithmic	Question ID : 630680193038	
ns	is 1. parabolic 2. cubic 3. logarithmic 4. linear Which of the following statements is true about an SI eng	Question ID : 630680193038	
.14	is 1. parabolic 2. cubic 3. logarithmic 4. linear Which of the following statements is true about an SI energine?	Question ID : 630680193038	
.14	is 1. parabolic 2. cubic 3. logarithmic 4. linear Which of the following statements is true about an SI energine? 1. The compression ratio is comparatively high.	Question ID : 630680193038	
.14	is 1. parabolic 2. cubic 3. logarithmic 4. linear Which of the following statements is true about an SI energine? 1. The compression ratio is comparatively high. 2. The operating speed is very high.	Question ID : 630680193038	
ns	is 1. parabolic 2. cubic 3. logarithmic 4. linear Which of the following statements is true about an SI energine? 1. The compression ratio is comparatively high. 2. The operating speed is very high. 3. The cost of running is comparatively low.	Question ID : 630680193038	
ns	is 1. parabolic 2. cubic 3. logarithmic 4. linear Which of the following statements is true about an SI energine? 1. The compression ratio is comparatively high. 2. The operating speed is very high.	Question ID : 630680193038	
ns	is 1. parabolic 2. cubic 3. logarithmic 4. linear Which of the following statements is true about an SI energine? 1. The compression ratio is comparatively high. 2. The operating speed is very high. 3. The cost of running is comparatively low.	Question ID : 630680193038	
.14	is 1. parabolic 2. cubic 3. logarithmic 4. linear Which of the following statements is true about an SI energine? 1. The compression ratio is comparatively high. 2. The operating speed is very high. 3. The cost of running is comparatively low.	Question ID : 630680193038	
ns	is 1. parabolic 2. cubic 3. logarithmic 4. linear Which of the following statements is true about an SI energine? 1. The compression ratio is comparatively high. 2. The operating speed is very high. 3. The cost of running is comparatively low.	Question ID : 630680193038	
.14	is 1. parabolic 2. cubic 3. logarithmic 4. linear Which of the following statements is true about an SI energine? 1. The compression ratio is comparatively high. 2. The operating speed is very high. 3. The cost of running is comparatively low.	Question ID : 630680193038	

Q.15 Which of the following statements is true about the fuel feed pump used for diesel engines? Ans √ 1. It is a spring-loaded, plunger type reciprocating pump. X 2. It is a centrifugal type pump. X 3. When the plunger of the feed pump is lifted upwards, the inlet valve remains open. Therefore, it is not suitable to inject fuel at that time. X 4. The plunger of the fuel feed pump is actuated by the governor. Question ID: 630680502732 Option 1 ID: 6306801964512 Option 2 ID: 6306801964510 Option 3 ID: 6306801964513 Option 4 ID: 6306801964511 Status: Answered Chosen Option: 4 Q.16 When the compressor and motor operate on the same shaft and are enclosed in a common casing, they are known as X 1. reciprocating compressors 2. centrifugal compressors 3. hermetic sealed compressors X 4. axial compressors Question ID: 630680506440 Option 1 ID: 6306801979273 Option 2 ID: 6306801979274 Option 3 ID: 6306801979275 Option 4 ID: 6306801979276 Status: Answered Chosen Option: 3 Q.17 When the fluid pressure is measured above the absolute zero pressure, the measured pressure is known as _ Ans X 1. vacuum pressure

2. absolute pressure

X 3. atmospheric pressure

¥ 4. gauge pressure

Question ID : 630680193056 Option 1 ID : 630680748764 Option 2 ID : 630680748762 Option 3 ID : 630680748761 Option 4 ID : 630680748763 Status : Answered

Q.18 Which of the following factors is taken into consideration when determining the maximum suction height of a centrifugal pump?

Ans X 1. Manometric efficiency

X 2. Priming

X 3. Mechanical efficiency

4. Cavitation

Question ID: 630680193035 Option 1 ID: 630680748679 Option 2 ID: 630680748677 Option 3 ID: 630680748680 Option 4 ID: 630680748678 Status: Answered

Chosen Option: 1

Q.19 Which of the following statements is true about quantity governing?

Ans X 1. Due to quantity governing, the engine efficiency is altered.

2. The compression ratio varies with charge supplied.

3. The mixture strength remains the same with variation in the speed of the engine.

4. This method is mostly preferred for diesel engines.

Question ID: 630680502681 Option 1 ID: 6306801964309 Option 2 ID: 6306801964308 Option 3 ID: 6306801964306 Option 4 ID: 6306801964307 Status: Answered

Chosen Option: 4

Q.20 Which of the following is the correct designation of the refrigerant CCI₃F?

Ans 🗳 1. R 11

X 2. R 21

X 3. R 12

X 4. R 22

Question ID: 630680506454 Option 1 ID: 6306801979329 Option 2 ID: 6306801979331 Option 3 ID: 6306801979330 Option 4 ID: 6306801979332

Status : Answered

Chosen Option: 3

Q.21 Which of the following statements is true about hit and miss governing?

Ans X 1. It increases the efficiency of engine.

X 2. It is a suitable governing method for heavy IC engines.

X 3. In this method of governing, none of the cycles should be idle throughout the running of engine.

√ 4. This method of governing requires higher weight of flywheel.

Question ID : 630680502674 Option 1 ID : 6306801964279 Option 2 ID : 6306801964278 Option 3 ID : 6306801964281 Option 4 ID : 6306801964280 Status : Answered

Q.22 A cantilever beam of length 2 m is subjected to a point load of 3 kN at a distance of 2 m and is subjected to a UDL of 3 kN/m for a total distance of 1.5 m from the fixed end. Calculate the shear force and bending moment at the fixed end.

Ans X 1. -12.5 kN, -8.547 kN-m

✓ 2. −7.5 kN, −9.375 kN-m

X 3. −10 kN, 15.254 kN-m

X 4. -5.75 kN, -5.545 kN-m

Question ID: 630680205958 Option 1 ID: 630680798638 Option 2 ID: 630680798635 Option 3 ID: 630680798636 Option 4 ID: 630680798637

Status : Answered

Chosen Option : 2

Q.23 The heat rejection in Stirling cycle takes place at:

Ans X 1. constant pressure

2. constant temperature

X 3. constant enthalpy

X 4. constant volume

Question ID: 630680412680 Option 1 ID: 6306801609544 Option 2 ID: 6306801609545 Option 3 ID: 6306801609546 Option 4 ID: 6306801609543 Status: Answered

Chosen Option: 4

Q.24 Which of the following is correct for Pelton wheel? Where, $\alpha \& \beta$ = guide blade angle at inlet and outlet, respectively $\Theta \& \phi$ = vane angle at inlet and outlet, respectively

Ans \times 1. β =0° and ϕ = 0°

 \times 2. $\alpha = 0^{\circ}$ and $\beta = 0^{\circ}$

 \times 3. $\alpha = 0^{\circ}$ and $\phi = 0^{\circ}$

 \checkmark 4. α =0° and Θ = 0°

Question ID: 630680508732

Option 1 ID: 6306801988229

Option 2 ID : **6306801988230** Option 3 ID : **6306801988228**

Option 4 ID : **6306801988231**

Status : Answered

Q.25 'No slip condition' at a fixed surface is applicable to the flow of which type of fluids?

Ans 🧼 1. All real fluids

X 2. Only ideal fluids

X 3. All non-Newtonian fluids

¥ 4. Only Newtonian fluids

Question ID : 630680508717 Option 1 ID : 6306801988170 Option 2 ID : 6306801988171 Option 3 ID : 6306801988169 Option 4 ID : 6306801988168 Status : Answered

Chosen Option: 4

Q.26 Which of the following claims about the irreversibility of a system is true?

Ans X 1. Irreversible processes violate the zeroth law of thermodynamics.

2. Irreversible processes violate the first law of thermodynamics.

3. Irreversible processes increase the entropy of the system.

¥ 4. Irreversible processes are always spontaneous.

Question ID: 630680503226 Option 1 ID: 6306801966490 Option 2 ID: 6306801966489 Option 3 ID: 6306801966491 Option 4 ID: 6306801966492 Status: Answered

Chosen Option: 4

Q.27 Which of the following machines violates the Kelvin Planck's statement?

Ans X 1. Reversible heat engine

✓ 2. PMM2

X 3. PMM1

X 4. Irreversible heat engine

Question ID: 630680503256 Option 1 ID: 6306801966609 Option 2 ID: 6306801966612 Option 3 ID: 6306801966611 Option 4 ID: 6306801966610

Status: Answered

Chosen Option: 2

Q.28 Which of the following refrigeration lubricants were the first synthetic oils to be used in the refrigeration industry?

Ans 🚀 1. Alkylbenzenes oil

X 2. Polyol ester oil

X 3. Mineral oil

X 4. Poly alkylene glycol oil

Question ID: 630680506418 Option 1 ID: 6306801979186 Option 2 ID: 6306801979187 Option 3 ID: 6306801979185 Option 4 ID: 6306801979188 Status: Answered

Q.29 What will not happen if the liquid has greater adhesion than cohesion?

Ans X 1. The angle of contact will be less than 90° in a small diameter tube.

X 2. Liquid will tend to rise at the point of contact.

3. Liquid surface will be concave downwards in a small diameter tube.

X 4. Liquid will wet a solid surface.

Question ID: 630680198993
Option 1 ID: 630680771702
Option 2 ID: 630680771700
Option 3 ID: 630680771701
Option 4 ID: 630680771699
Status: Answered

Chosen Option : 1

Q.30 The casting process that employs a permanent metal or ceramic mould, is ______.

Ans 1. die casting

X 2. centrifugal casting

X 3. sand casting

X 4. investment casting

Question ID: 630680503205 Option 1 ID: 6306801966407 Option 2 ID: 6306801966408 Option 3 ID: 6306801966405 Option 4 ID: 6306801966406 Status: Answered

Chosen Option : 1

Q.31 Which of the following is NOT a part of a bucket type steam trap?

Ans 🚀 1. Injector

X 2. Spiral vane

X 3. Guide tube

X 4. Float

Question ID: 630680502654 Option 1 ID: 6306801964201 Option 2 ID: 6306801964200 Option 3 ID: 6306801964199 Option 4 ID: 6306801964198

Status: Answered

Chosen Option : 1

Q.32 Which of the following evaporators are used for refrigeration units of 2 to 250 TR capacity?

Ans X 1. Shell and coil evaporators

2. Dry expansion shell and tube evaporators

X 3. Flooded shell and tube evaporators

¥ 4. Plate evaporators

Question ID : 630680506419 Option 1 ID : 6306801979190 Option 2 ID : 6306801979192 Option 3 ID : 6306801979189 Option 4 ID : 6306801979191 Status : Answered

Q.33 Which of the following assertions related to drilling is true?

Ans X 1. Drilling is a process that uses a hammer to make a hole in a workpiece.

X 2. Drilling is a process that uses a non-rotating tool to make a hole in a workpiece.

3. Drilling is a process that uses a saw to make a hole in a workpiece.

✓ 4. Drilling is a process that uses a rotating tool to make a hole in a workpiece.

Question ID: 630680503223
Option 1 ID: 6306801966480
Option 2 ID: 6306801966478
Option 3 ID: 6306801966479
Option 4 ID: 6306801966477
Status: Answered

Chosen Option : 4

Q.34 Variation of power input with speed at constant discharge in case of a centrifugal pump is _______.

Ans X 1. linear

X 2. logarithmic

X 4. parabolic

Question ID: 630680198968
Option 1 ID: 630680771599
Option 2 ID: 630680771602
Option 3 ID: 630680771601
Option 4 ID: 630680771600
Status: Answered

Chosen Option: 3

Q.35 Which of the following statements best describes the second law of thermodynamics in relation to cyclic heat and work processes?

Ans 1. In a cyclic process, the net work output can be equal to, greater than or less than the net heat input, depending on the efficiency of the process.

X 2. In a cyclic process, the net heat transfer is always less than the net work done.

X 3. In a cyclic process, the net heat transfer is equal to the net work done.

X 4. In a cyclic process, the net heat transfer is always greater than the net work done.

Question ID: 630680503230 Option 1 ID: 6306801966508 Option 2 ID: 6306801966507 Option 3 ID: 6306801966505 Option 4 ID: 6306801966506 Status: Answered

Q.36	The process that involves passage of a higher-pressure fluid throu constriction is called:	gh a narrow	
Ans	√ 1. throttling process		
	X 2. hyperbolic process		
	X 3. free expansion process		
	X 4. polytropic process		
		Question ID : 630680348148	
		Option 1 ID : 6306801354884 Option 2 ID : 6306801354882	
		Option 3 ID : 6306801354883	
		Option 4 ID : 6306801354881	
		Status : Answered	
		Chosen Option : 1	
	The brake power of an engine can be measured by using a rope brais given by the expression: (Where, 'D' is diameter of the brake dru and 'S' is the spring scale reading, 'N' Speed in rpm)		
Ans	X 1. πDN (W + S)		
	× 2. DN (W + S)		
	※ 3. DN (W − S)		
	√ 4. πDN (W − S)		
		Question ID : 630680386536 Option 1 ID : 6306801506854	
		Option 2 ID : 6306801506857	
		Option 3 ID : 6306801506856	
		Option 4 ID : 6306801506855	
		Status : Answered	
		Chosen Option : 1	
Q.38 Ans	Which of the following is NOT a type of sawing? X 1. Circular sawing		
	X 2. Hack sawing		
	X 4. Band sawing		
		Question ID: 630680503248	
		Option 1 ID : 6306801966580	
		Option 2 ID : 6306801966577	
		Option 3 ID : 6306801966579 Option 4 ID : 6306801966578	
		Status : Answered	
		Chosen Option : 2	
Q.39 Ans	In the battery ignition system for SI engines, with increase in the sp 1. sparking voltage drops	eed, the	
,	X 2. sparking voltage first increases and then becomes constant		
	X 3. sparking voltage increases		
	X 4. sparking voltage remains the same		
		Question ID : 630680502730	
		Option 1 ID : 6306801964503	
		Option 2 ID : 6306801964505	
		Option 3 ID : 6306801964502	
		Option 4 ID : 6306801964504 Status : Answered	
		Chosen Option : 2	

Q.40 For the H-S diagram of a vapour compression refrigeration cycle, the specific enthalpy of the refrigerant coming out from the compressor X 1. may increase or decrease X 2. decreases 3. increases X 4. remains constant Question ID: 630680506443 Option 1 ID: 6306801979288 Option 2 ID: 6306801979286 Option 3 ID: 6306801979285 Option 4 ID: 6306801979287 Status: Answered Chosen Option: 3 Q.41 Which of the following gas combination is commonly used in oxyfuel-gas welding? 1. Oxygen and acetylene X 2. Oxygen and H₂ X 3. Oxygen and Nitrogen X 4. Oxygen and CO₂ Question ID: 630680503272 Option 1 ID: 6306801966673 Option 2 ID: 6306801966675 Option 3 ID: 6306801966676 Option 4 ID: 6306801966674 Status: Answered Chosen Option: 1 Q.42 Which of the following does NOT indicate that the refrigeration plant has to be charged with the refrigerant? X 1. Reduction in the efficiency of the plant Ans X 2. Short cycling of compressor 3. High suction pressure 4. Difficult to maintain temperature of rooms and holds Question ID: 630680506410 Option 1 ID: 6306801979156 Option 2 ID: 6306801979153 Option 3 ID: 6306801979154 Option 4 ID: 6306801979155 Status: Answered Chosen Option: 4 Q.43 A drill bit of diameter 25 mm has cutting speed of 15.7 m/min. What is the speed of rotation of drill? √ 1. 200 RPM Ans X 2. 314 RPM X 3.400 RPM

X 4. 500 RPM

Question ID: 630680503251
Option 1 ID: 6306801966590
Option 2 ID: 6306801966592
Option 3 ID: 6306801966589
Option 4 ID: 6306801966591

Status : Answered

	X 2. friction force		
	√ 3. mass of sleeve		
	X 4. spring force		
		Question ID : 630680509132	
		Option 1 ID : 6306801989825	
		Option 2 ID : 6306801989824 Option 3 ID : 6306801989826	
		Option 4 ID : 6306801989823	
		Status : Answered	
		Chosen Option : 3	
Q.45 Ans	The distance of centre of pressure from free surface of liquid is independent of: 1. the density of liquid		
	X 2. the distance of C.G. from free surface of liquid		
	X 3. the surface area		
	X 4. the moment of inertia		
	7. and morners of mersia		
		Question ID : 630680508637	
		Option 1 ID : 6306801987850	
		Option 2 ID : 6306801987851	
		Option 3 ID : 6306801987849	
		Option 4 ID : 6306801987848	
		·	
		Status : Answered	
!	Which of the following prevents the high-pressure vapour back to the evaporator in rotating blade type rotary comp	Status : Answered Chosen Option : 1	
ı		Status : Answered Chosen Option : 1	
ı	back to the evaporator in rotating blade type rotary comp 1. Throttling valve 2. Check valve 3. Pressure valve	Status : Answered Chosen Option : 1 r refrigerant from flowing ressor? Question ID : 630680506437 Option 1 ID : 6306801979262 Option 2 ID : 6306801979263	
1	back to the evaporator in rotating blade type rotary comp 1. Throttling valve 2. Check valve 3. Pressure valve	Status : Answered Chosen Option : 1 r refrigerant from flowing ressor? Question ID : 630680506437 Option 1 ID : 6306801979262 Option 2 ID : 6306801979263 Option 3 ID : 6306801979264	
1	back to the evaporator in rotating blade type rotary comp 1. Throttling valve 2. Check valve 3. Pressure valve	Status : Answered Chosen Option : 1 Prefrigerant from flowing ressor? Question ID : 630680506437 Option 1 ID : 6306801979262 Option 2 ID : 6306801979263 Option 3 ID : 6306801979264 Option 4 ID : 6306801979261	
1	back to the evaporator in rotating blade type rotary comp 1. Throttling valve 2. Check valve 3. Pressure valve	Status : Answered Chosen Option : 1 refrigerant from flowing ressor? Question ID : 630680506437 Option 1 ID : 6306801979262 Option 2 ID : 6306801979263 Option 3 ID : 6306801979264 Option 4 ID : 6306801979261 Status : Answered	
!	back to the evaporator in rotating blade type rotary comp 1. Throttling valve 2. Check valve 3. Pressure valve	Status : Answered Chosen Option : 1 Prefrigerant from flowing ressor? Question ID : 630680506437 Option 1 ID : 6306801979262 Option 2 ID : 6306801979263 Option 3 ID : 6306801979264 Option 4 ID : 6306801979261	
Ans	back to the evaporator in rotating blade type rotary comp 1. Throttling valve 2. Check valve 3. Pressure valve 4. Safety valve	Status : Answered Chosen Option : 1 Question ID : 630680506437 Option 1 ID : 6306801979262 Option 2 ID : 6306801979263 Option 3 ID : 6306801979264 Option 4 ID : 6306801979261 Status : Answered Chosen Option : 2	
Ans	back to the evaporator in rotating blade type rotary comp 1. Throttling valve 2. Check valve 3. Pressure valve 4. Safety valve	Status : Answered Chosen Option : 1 Question ID : 630680506437 Option 1 ID : 6306801979262 Option 2 ID : 6306801979263 Option 3 ID : 6306801979264 Option 4 ID : 6306801979261 Status : Answered Chosen Option : 2	
Ans	back to the evaporator in rotating blade type rotary comp 1. Throttling valve 2. Check valve 3. Pressure valve 4. Safety valve	Status : Answered Chosen Option : 1 Question ID : 630680506437 Option 1 ID : 6306801979262 Option 2 ID : 6306801979263 Option 3 ID : 6306801979264 Option 4 ID : 6306801979261 Status : Answered Chosen Option : 2	
Ans	back to the evaporator in rotating blade type rotary comp 1. Throttling valve 2. Check valve 3. Pressure valve 4. Safety valve	Status : Answered Chosen Option : 1 Question ID : 630680506437 Option 1 ID : 6306801979262 Option 2 ID : 6306801979263 Option 3 ID : 6306801979264 Option 4 ID : 6306801979261 Status : Answered Chosen Option : 2	
Ans 2.47	back to the evaporator in rotating blade type rotary comp 1. Throttling valve 2. Check valve 3. Pressure valve 4. Safety valve In the process of brazing, the filler metal is drawn into the 1. Low viscosity 2. High diffusion	Status : Answered Chosen Option : 1 Question ID : 630680506437 Option 1 ID : 6306801979262 Option 2 ID : 6306801979263 Option 3 ID : 6306801979264 Option 4 ID : 6306801979261 Status : Answered Chosen Option : 2	
Ans	back to the evaporator in rotating blade type rotary comp 1. Throttling valve 2. Check valve 3. Pressure valve 4. Safety valve In the process of brazing, the filler metal is drawn into the 1. Low viscosity 2. High diffusion 3. Capillary action	Status : Answered Chosen Option : 1 Question ID : 630680506437 Option 1 ID : 6306801979262 Option 2 ID : 6306801979263 Option 3 ID : 6306801979264 Option 4 ID : 6306801979261 Status : Answered Chosen Option : 2	
Ans 2.47	back to the evaporator in rotating blade type rotary comp 1. Throttling valve 2. Check valve 3. Pressure valve 4. Safety valve In the process of brazing, the filler metal is drawn into the 1. Low viscosity 2. High diffusion 3. Capillary action	Status : Answered Chosen Option : 1 Question ID : 630680506437 Option 1 ID : 6306801979262 Option 2 ID : 6306801979263 Option 3 ID : 6306801979264 Option 4 ID : 6306801979261 Status : Answered Chosen Option : 2	
Ans 2.47	back to the evaporator in rotating blade type rotary comp 1. Throttling valve 2. Check valve 3. Pressure valve 4. Safety valve In the process of brazing, the filler metal is drawn into the 1. Low viscosity 2. High diffusion 3. Capillary action	Status : Answered Chosen Option : 1 Question ID : 630680506437 Option 1 ID : 6306801979262 Option 2 ID : 6306801979264 Option 3 ID : 6306801979264 Option 4 ID : 6306801979261 Status : Answered Chosen Option : 2 Question ID : 630680205053 Option 1 ID : 630680795077	
Ans 2.47	back to the evaporator in rotating blade type rotary comp 1. Throttling valve 2. Check valve 3. Pressure valve 4. Safety valve In the process of brazing, the filler metal is drawn into the 1. Low viscosity 2. High diffusion 3. Capillary action	Status : Answered Chosen Option : 1 Question ID : 630680506437 Option 1 ID : 6306801979262 Option 2 ID : 6306801979264 Option 3 ID : 6306801979264 Option 4 ID : 6306801979261 Status : Answered Chosen Option : 2 Question ID : 630680205053 Option 1 ID : 630680795077 Option 2 ID : 630680795078	
Ans 2.47	back to the evaporator in rotating blade type rotary comp 1. Throttling valve 2. Check valve 3. Pressure valve 4. Safety valve In the process of brazing, the filler metal is drawn into the 1. Low viscosity 2. High diffusion 3. Capillary action	Status : Answered Chosen Option : 1 Question ID : 630680506437 Option 1 ID : 6306801979262 Option 2 ID : 6306801979264 Option 3 ID : 6306801979264 Option 4 ID : 6306801979261 Status : Answered Chosen Option : 2 Question ID : 630680205053 Option 1 ID : 630680795077	

Chosen Option : 3

Q.44 In the porter governor, the main constituent of controlling force is:

	Carbon steel contains a carbon percentage of about 0.21%. The possible type of carbon steel is	
ns	X 1. alloy steel	
	X 2. stainless steel	
	X 4. medium carbon steel	
		Question ID : 630680191553
		Option 1 ID : 630680742833
		Option 2 ID : 630680742836
		Option 3 ID : 630680742835
		Option 4 ID : 630680742834
		Status : Answered
		Chosen Option : 3
.49	Total gradient line (or total energy line) is parallel to hydra vertical distance of (The symbols have	nulic gradient line with a their usual meanings.)
ns	X 1.	
	↑	
	✓ 2.	
	X 3.	
	0.	
	× 4.	
		Question ID : 630680198989
		Option 1 ID : 630680771684
		Option 2 ID: 630680771685
		Option 3 ID : 630680771686
		Option 4 ID : 630680771683
		Status : Answered
		Chosen Option : 1
.50	Which of the following is NOT the application for steam in	industry?
ns	X 1. Heating	
	× 2. Propulsion	
	·	
	✓ 3. De-atomisationX 4. Humidification	
	·	Question ID : 630680348139
	·	Option 1 ID : 6306801354845
	·	Option 1 ID : 6306801354845 Option 2 ID : 6306801354846
	·	Option 1 ID : 6306801354845 Option 2 ID : 6306801354846 Option 3 ID : 6306801354848
	·	Option 1 ID : 6306801354845 Option 2 ID : 6306801354846 Option 3 ID : 6306801354848 Option 4 ID : 6306801354847
	·	Option 1 ID : 6306801354845 Option 2 ID : 6306801354846 Option 3 ID : 6306801354848

Q.51 A cooling system is essentially required in internal combustion engines to

Ans X 1. keep the engine very hot or very cool

X 2. remove heat at a faster rate when the engine is cool

X 4. remove about 70% of heat generated in the combustion chamber

Question ID: 630680382380 Option 1 ID: 6306801490436 Option 2 ID: 6306801490437 Option 3 ID: 6306801490435 Option 4 ID: 6306801490438 Status: Answered

Chosen Option: 3

Q.52 Which of the following is NOT a frequent pattern-making process in manufacturing?

Ans 💜 1. Welding pattern

X 2. Investment pattern

X 3. Match plate pattern

X 4. Sweep pattern

Question ID: 630680503200 Option 1 ID: 6306801966388 Option 2 ID: 6306801966387 Option 3 ID: 6306801966386 Option 4 ID: 6306801966385 Status: Answered

Chosen Option : 1

Q.53 The location of centre of gravity for a sphere of radius (R) from the geometrical centre is at a distance of:

Ans X 1. R

X 2. 0.25R

3. 0

X 4. 0.5R

Question ID : **630680509611** Option 1 ID : **6306801991665**

Option 2 ID : **6306801991667**

Option 3 ID : **6306801991668** Option 4 ID : **6306801991666**

Status: Answered

Chosen Option: 3

Q.54 Which of the following is NOT a lathe turning operation?

Ans 🚀 1. Sawing

X 2. Facing

X 3. Grooving

X 4. Threading

Question ID: 630680503220 Option 1 ID: 6306801966467 Option 2 ID: 6306801966465 Option 3 ID: 6306801966468 Option 4 ID: 6306801966466

Status : Answered

Q.55 A closed system undergoes a cycle consisting of two processes. Process 1-2 is an isothermal expansion whereas Process 2-1 is an isentropic compression. According to the first law of thermodynamics, which of the following statements is true for this cycle? Ans X 1. Work done during Process 1-2 is zero. 2. Heat transfer during Process 2-1 is zero. X 3. Work done during Process 2-1 is zero. X 4. Heat transfer during Process 1-2 is zero. Question ID: 630680503235 Option 1 ID: 6306801966525 Option 2 ID: 6306801966528 Option 3 ID: 6306801966526 Option 4 ID: 6306801966527 Status: Answered Chosen Option: 2 Q.56 The Kaplan turbine is an example of ____ X 1. tangential flow turbine X 2. radial flow turbine X 3. mixed-flow turbine 4. axial flow turbine Question ID: 630680193067 Option 1 ID: 630680748805 Option 2 ID: 630680748808 Option 3 ID: 630680748806 Option 4 ID: 630680748807 Status: Answered Chosen Option: 2 Q.57 In which of the following areas is supercharging NOT so important? Ans X 1. Engines working at high altitudes X 2. Racing cars X 3. Marine and automotive engines where weight and space are important 4. Domestic bikes Question ID: 630680502665 Option 1 ID: 6306801964243 Option 2 ID: 6306801964244 Option 3 ID: 6306801964242 Option 4 ID: 6306801964245 Status: Answered Chosen Option: 3 Q.58 What will be the value of the axial thrust on a wheel when there is no blade friction? Ans 1. Zero X 2. Minimum X 3. Maximum

X 4. Equal to the tangential force on the blade

Question ID: 630680502690
Option 1 ID: 6306801964344
Option 2 ID: 6306801964343
Option 3 ID: 6306801964342
Option 4 ID: 6306801964345
Status: Answered

Q.59 Which of the following statements is correct about the location of centre of pressure?

Ans 1. Centre of pressure may lie at any location irrespective of the centre of gravity of the vertically immersed surface.

X 2. Centre of pressure coincides with the centre of gravity of the vertically immersed

3. Centre of pressure lies below the centre of gravity of the vertically immersed surface.

X 4. Centre of pressure lies above the centre of gravity of the vertically immersed surface.

Question ID: 630680199002 Option 1 ID: 630680771738 Option 2 ID: 630680771737 Option 3 ID: 630680771735 Option 4 ID: 630680771736 Status: Answered

Chosen Option: 3

Q.60 In a Hartnell governor, if a spring of greater stiffness is used, then the governor will

Ans X 1. insensitive

2. less sensitive

X 3. Isochronous

X 4. more sensitive

Question ID: 630680335145 Option 1 ID: 6306801303800 Option 2 ID: 6306801303798 Option 3 ID: 6306801303799 Option 4 ID: 6306801303797

Status : **Answered** Chosen Option : **2**

${\bf Q.61\ \ When\ pressure\ is\ measured\ above\ the\ atmospheric\ pressure,\ it\ is\ termed\ as:}$

Ans X 1. absolute pressure

2. gauge pressure

X 3. vacuum pressure

X 4. stagnation pressure

Question ID: 630680508636 Option 1 ID: 6306801987844 Option 2 ID: 6306801987846 Option 3 ID: 6306801987845 Option 4 ID: 6306801987847 Status: Answered

Chosen Option: 2

Q.62 The Kelvin-Planck statement of the Second Law states that _____

Ans X 1. work can be converted completely into heat

2. it is impossible to convert all the heat absorbed from a single reservoir into work

💢 3. heat cannot flow spontaneously from a colder body to a hotter body

X 4. it is possible to convert all the heat absorbed from a single reservoir into work

Question ID: 630680503229 Option 1 ID: 6306801966504 Option 2 ID: 6306801966501 Option 3 ID: 6306801966503 Option 4 ID: 6306801966502

Status : **Answered** Chosen Option : **2**

Q.63 If there is flow of real fluid at fixed boundary, then no-slip condition: X 1. does not occur X 2. may or may not occur X 3. depends on the type of flow 4. occurs Question ID: 630680508622 Option 1 ID: 6306801987788 Option 2 ID: 6306801987790 Option 3 ID: 6306801987791 Option 4 ID: 6306801987789 Status: Answered Chosen Option: 2 Q.64 If the power output of a hydraulic turbine is 100 kW and overall efficiency is 50%, then what will be the power supplied at the inlet of the turbine? Ans 1. 200 kW X 2. 250 kW X 3. 150 kW X 4. 50 kW Question ID: 630680508632 Option 1 ID: 6306801987830 Option 2 ID: 6306801987831 Option 3 ID: 6306801987829 Option 4 ID: 6306801987828 Status: Answered Chosen Option: 1 Q.65 The overall efficiency of the turbine is given by: 1. overall efficiency = mechanical efficiency /hydraulic efficiency 💢 2. overall efficiency = hydraulic efficiency / mechanical efficiency X 4. overall efficiency = mechanical efficiency² / hydraulic efficiency² Question ID: 630680508612 Option 1 ID: 6306801987749 Option 2 ID: 6306801987748 Option 3 ID: 6306801987751 Option 4 ID: 6306801987750 Status: Answered Chosen Option: 3 Q.66 The fluid that becomes less viscous as it is sheared harder is called Ans X 1. dilatant fluid X 2. thixotropic fluid X 3. Newtonian fluid 4. pseudo-plastic fluid Question ID: 630680508720 Option 1 ID: 6306801988181 Option 2 ID: 6306801988180 Option 3 ID: 6306801988183 Option 4 ID: 6306801988182

Status: Answered

Q.67 Which of the following statements is INCORRECT about the air pre-heater in a steam boiler?

Ans X 1. In the tubular type of air pre-heater, hot flue gases flow in the direction opposite to that of air travel.

X 2. In the regenerative type of air pre-heater, heat from flue gases is transferred to air through an intermediate heat storage medium.

X 3. Use of the air pre-heater leads to less atmospheric pollution.

✓ 4. In the tubular type of air pre-heater, hot flue gases flow through the outside of the tubes of the air pre-heater.

Question ID: 630680502656 Option 1 ID: 6306801964209 Option 2 ID: 6306801964207 Option 3 ID: 6306801964208 Option 4 ID: 6306801964206 Status: Answered

Chosen Option: 4

Q.68 A cyclic heat engine takes 40 kJ of heat from a 100°C temperature reservoir. If it gives 40 kJ of work, then which of the following statements is correct?

Ans 1. The engine violates the Kelvin Planck's statement

X 2. The engine violates the Clausius statement.

X 3. The engine violates the 1st law of thermodynamics.

X 4. The engine violates 1st law of thermodynamics as well as Kelvin Planck's statement.

Question ID : 630680503257 Option 1 ID : 6306801966614 Option 2 ID : 6306801966615 Option 3 ID : 6306801966613 Option 4 ID : 6306801966616 Status : Answered

Chosen Option: 1

Q.69 Which of the following is NOT an example of Newtonian fluid?

Ans X 1. Water

2. Printer's ink

X 3. Kerosene

X 4. Air

Question ID: 630680199007 Option 1 ID: 630680771755 Option 2 ID: 630680771758 Option 3 ID: 630680771757 Option 4 ID: 630680771756

Status: Answered

Q.70 In case of a four-stroke diesel engine, the valve timing diagram is expressed in terms of _____.

Ans X 1. the time taken for opening and closing of the valve with respect to only TDC

X 2. the time taken for opening and closing of the valve with respect to TDC and BDC

X 4. the linear movement of the piston with respect to TDC and BDC

Question ID: 630680502711 Option 1 ID: 6306801964427 Option 2 ID: 6306801964426 Option 3 ID: 6306801964428 Option 4 ID: 6306801964429 Status: Answered

Chosen Option: 3

Q.71 Which of the following statements is INCORRECT about no slip boundary condition?

Ans 1. In case of the no slip boundary condition at a fixed solid boundary, the fluid will have zero velocity.

X 2. During no slip condition the fluid velocity at all fluid–solid boundaries is equal to that of the solid boundary.

X 3. The no slip condition can be defined for viscous flows.

4. In case of the no slip boundary condition at a fixed solid boundary, the fluid will have some velocity relative to the boundary.

> Question ID: 630680199006 Option 1 ID: 630680771753 Option 2 ID: 630680771751 Option 3 ID: 630680771754 Option 4 ID: 630680771752 Status: Answered

Chosen Option: 4

Q.72 A sample of an ideal gas is compressed isothermally from volume of 4 I to 2 I. If the initial pressure is 2 atm, what is the final pressure?

Ans X 1. 1 atm

2. 4 atm

X 3. 8 atm

X 4. 2 atm

Question ID: 630680503215 Option 1 ID: 6306801966445 Option 2 ID: 6306801966447

Option 3 ID : **6306801966448** Option 4 ID : **6306801966446**

Status : Answered

Q.73 The surging phenomenon in a centrifugal compressor occurs when the refrigeration load decreases to below: Ans √ 1. 35% of the rated capacity X 2. 65% of the rated capacity X 3. 55% of the rated capacity 4. 45% of the rated capacity Question ID: 630680506395 Option 1 ID: 6306801979093 Option 2 ID: 6306801979096 Option 3 ID: 6306801979095 Option 4 ID: 6306801979094 Status: Answered Chosen Option: 4 Q.74 In actual air-conditioning applications, the heat rejection factor depends upon the: X 1. rate of flow X 2. evaporator temperature 3. evaporator and condenser temperatures X 4. condenser temperature Question ID: 630680506427 Option 1 ID: 6306801979223 Option 2 ID: 6306801979222 Option 3 ID: 6306801979224 Option 4 ID: 6306801979221 Status: Answered Chosen Option: 3 Q.75 For measurement of dryness fraction of steam, use of a separating calorimeter is suitable _ Ans X 1. when dryness fraction is greater than 1 X 2. for any condition of steam X 3. when dryness fraction is greater than 0.95 Question ID: 630680502761 Option 1 ID: 6306801964629 Option 2 ID: 6306801964628 Option 3 ID: 6306801964626 Option 4 ID: 6306801964627 Status: Answered Chosen Option: 4 Q.76 The mass transfer process in an open system is commonly modelled using the _____ equation. 1. third law of thermodynamics Ans X 2. second law of thermodynamics 3. mass balance 4. zeroth law of thermodynamics

Question ID: 630680503178
Option 1 ID: 6306801966299
Option 2 ID: 6306801966298
Option 3 ID: 6306801966300
Option 4 ID: 6306801966297
Status: Answered

Q.77 Which of the following statements are correct regarding the characteristics of Entropy? 1)It increases when heat is supplied irrespective of the fact whether temperature changes or not. 2)It decreases when heat is removed whether temperature changes or not. 3)It remains unchanged in all adiabatic frictionless processes. 4)It increases if temperature of heat is lowered without work being done as in a throttling process. 1. 1, 2, 3 and 4 X 2. Only 1, 2 and 3 X 3. Only 1, 3 and 4 X 4. Only 2, 3 and 4 Question ID: 630680395246 Option 1 ID: 6306801541195 Option 2 ID: 6306801541192 Option 3 ID: 6306801541194 Option 4 ID: 6306801541193 Status: Answered Chosen Option: 2 Q.78 The zeroth law of thermodynamics is based on the concept of _ X 1. enthalpy 2. temperature X 3. heat capacity X 4. entropy Question ID: 630680503210 Option 1 ID: 6306801966428 Option 2 ID: 6306801966427 Option 3 ID: 6306801966425 Option 4 ID: 6306801966426 Status: Answered Chosen Option: 2 Q.79 In a boiler test, the water supplied to a boiler per hour is 2250 kg. The mass of water in the boiler at the end of the one hour is found to be less than that at commencement by 250 kg. The coal burnt per hour is 250 kg. What will be the actual evaporation per kg of the fuel burnt of the boiler? **Ans** X 1. 8 kg 🥠 2. 10 kg X 3. 2500 kg X 4. 250 kg Question ID: 630680502645 Option 1 ID: 6306801964162 Option 2 ID: 6306801964163 Option 3 ID: 6306801964165

Option 4 ID : **6306801964164**Status : **Answered**

Q.80	.80 If a point is to be at the free surface of a liquid open to the atmosphere, where the pressure is the atmospheric pressure P _{atm} , then the gauge pressure at a depth 'h' from the free surface becomes:	
Ans	✓ 1.	
	X 2.	
	X 3.	
	X 4.	
		Question ID: 630680508737 Option 1 ID: 6306801988248 Option 2 ID: 6306801988250 Option 3 ID: 6306801988251 Option 4 ID: 6306801988249 Status: Answered Chosen Option: 1
Q.81	Name the welding defect in which we observe a long and continuou line between the base metal and the heat affected zone.	s visual separation
Ans	✓ 1. Lamellar tearing	
	× 2. Hot cracking	
	X 3. Incomplete fusion	
	X 4. Undercut	
		Question ID : 630680211307 Option 1 ID : 630680819375 Option 2 ID : 630680819376 Option 3 ID : 630680819377 Option 4 ID : 630680819378 Status : Answered Chosen Option : 1
Q.82	What will be the power lost in friction assuming uniform pressure the vertical shaft of 100 mm diameter rotating at 150 r.p.m. rests on a flat bearing? The coefficient of friction is equal to 0.05 and the shaft car of 15 KN.	t end foot step
Ans	✓ 1. 392.7 W	
	X 2. 392.7 KW	
	X 3. 39.27 KW	
	X 4. 39.27 W	
		Question ID: 630680227834 Option 1 ID: 630680884013 Option 2 ID: 630680884011 Option 3 ID: 630680884012 Option 4 ID: 630680884014 Status: Answered Chosen Option: 1

Q.83 The conventional depth of a cut considered in the parting operation using a lathe is √ 1. 3 mm to 10 mm Ans X 2. 20 mm to 25 mm X 3. 12 mm to 16 mm X 4. 1 mm to 2 mm Question ID: 630680205078 Option 1 ID: 630680795175 Option 2 ID: 630680795178 Option 3 ID: 630680795177 Option 4 ID: 630680795176 Status: Answered Chosen Option: 4 Q.84 The heat transfer during constant pressure heating of a gas in a cylinder containing a sliding piston is equal to _ Ans X 1. zero 2. the change in enthalpy X 3. the work done by the piston X 4. the change in internal energy Question ID: 630680503275 Option 1 ID: 6306801966688 Option 2 ID: 6306801966686 Option 3 ID: 6306801966687 Option 4 ID: 6306801966685 Status: Answered Chosen Option: 2 Q.85 Which part of the arc welding element/equipment is consumable? Ans 1. Electrode X 2. AC/DC transformer X 3. Electrical cables X 4. Electrode holder Question ID: 630680205050 Option 1 ID: 630680795066 Option 2 ID: 630680795064 Option 3 ID: 630680795063 Option 4 ID: 630680795065 Status: Answered Chosen Option: 1

Q.86 Which of the following options is correct about four-stroke engines when compared with two-stroke engines?

Ans 1. The thermodynamic cycle is completed in two strokes of the piston or in one revolution of the crankshaft.

2. Thermal efficiency is higher.

X 3. Light weight and simplicity due to absence of the valve actuating mechanism, with the initial cost of the engine being low

X 4. Lower volumetric efficiency due to lesser time taken for mixture intake

Question ID: 630680181695
Option 1 ID: 630680704022
Option 2 ID: 630680704024
Option 3 ID: 630680704025
Option 4 ID: 630680704023
Status: Answered

Chosen Option: 2

Q.87 Which of the following is used to increase the temperature of steam above its saturation temperature?

Ans 1. Superheater

X 2. Air pre-heater

X 3. Steam dryer

X 4. Economiser

Question ID: 630680502707 Option 1 ID: 6306801964412 Option 2 ID: 6306801964411 Option 3 ID: 6306801964413 Option 4 ID: 6306801964410 Status: Answered

Chosen Option: 1

Q.88 The manometric head of a centrifugal pump is independent of which of the following factors?

Ans X 1. Frictional head loss in suction pipe

X 2. Loss of head in impeller and casing

3. Frictional losses in bearings

X 4. Frictional head loss in delivery pipe

Question ID: 630680198966
Option 1 ID: 630680771592
Option 2 ID: 630680771591
Option 3 ID: 630680771593
Option 4 ID: 630680771594
Status: Answered

Ins	W 4 management and a second and	
	X 1. moving boundary work	
	2. flow work	
	X 3. external work	
	X 4. momentum energy	
		Question ID : 630680503243
		Option 1 ID : 6306801966557
		Option 2 ID : 6306801966558
		Option 3 ID : 6306801966560
		Option 4 ID : 6306801966559
		Status : Answered
		Chosen Option : 2
90	The distance of the centre of pressure from the free surface of the liquid is independent of the:	
ns	✓ 1. density of liquid	
	X 2. moment of inertia about the centre of gravity	
	X 3. depth of the centre of gravity from the free surface	e
	X 4. area exposed to the liquid	
		Question ID : 630680508740
		Option 1 ID : 6306801988262
		Option 2 ID : 6306801988263 Option 3 ID : 6306801988261
		Option 4 ID : 6306801988260
		Status : Answered
		Chosen Option : 1
01	The mist lubrication system is generally used for	
	✓ 1. two stroke cycle engine	- -'
Ans	•	
	X 2, gas engine	
	X 2. gas engine	
	✗ 3. air refrigeration cycle engine	
	✗ 3. air refrigeration cycle engine	Question ID : 630680502667
	✗ 3. air refrigeration cycle engine	Question ID : 630680502667 Option 1 ID : 6306801964251
	✗ 3. air refrigeration cycle engine	
	✗ 3. air refrigeration cycle engine	Option 1 ID : 6306801964251 Option 2 ID : 6306801964253 Option 3 ID : 6306801964252
	✗ 3. air refrigeration cycle engine	Option 1 ID : 6306801964251 Option 2 ID : 6306801964253 Option 3 ID : 6306801964252 Option 4 ID : 6306801964250
	✗ 3. air refrigeration cycle engine	Option 1 ID : 6306801964251 Option 2 ID : 6306801964253 Option 3 ID : 6306801964252

Ans X 1. The equation is the steady flow energy equation for steam nozzles.

2. There is no mechanical work done by the steam nozzle.

X 4. The flow is adiabatic in steam nozzles.

Question ID: 630680502641
Option 1 ID: 6306801964146
Option 2 ID: 6306801964148
Option 3 ID: 6306801964149
Option 4 ID: 6306801964147
Status: Answered

Chosen Option: 3

Q.93 The casting process that employs a wax pattern coated with a ceramic shell to make the mould, is ______.

Ans X 1. sand casting

X 2. centrifugal casting

X 3. die casting

4. investment casting

Question ID: 630680503204
Option 1 ID: 6306801966401
Option 2 ID: 6306801966404
Option 3 ID: 6306801966403
Option 4 ID: 6306801966402
Status: Answered

Chosen Option : 4

Q.94 A complex geometry is placed in the X-Y plane. If the geometry is found to be symmetrical about the Y-axis, then which of the following is correct to calculate the centre of gravity?

Ans X 1. X co-ordinate is a non-zero value

X 2. Z co-ordinate is a non-zero value

X 3. Y co-ordinate is zero

Question ID: 630680509603 Option 1 ID: 6306801991634 Option 2 ID: 6306801991636 Option 3 ID: 6306801991633 Option 4 ID: 6306801991635

Status : Answered

Q.95 The maximum frictional force that comes in play when a body just begins to slide over the surface of another body is called: X 1. kinetic friction X 2. static friction X 3. dynamic friction 4. limiting friction Question ID: 630680394585 Option 1 ID: 6306801538626 Option 2 ID: 6306801538628 Option 3 ID: 6306801538627 Option 4 ID: 6306801538629 Status: Answered Chosen Option: 2 Q.96 In a milling machine, bulky workpieces of irregular shapes are clamped directly on the milling machine table by using _ Ans X 1. swivel vise X 2. angle plates 3. T-bolts and clamps X 4. V-blocks Question ID: 630680205087 Option 1 ID: 630680795214 Option 2 ID: 630680795211 Option 3 ID: 630680795212 Option 4 ID: 630680795213 Status: Answered Chosen Option: 3 Q.97 What is the main benefit of double volute casing over single volute casing of a centrifugal pump? 1. Radial load balancing Ans X 2. High discharge X 3. Less power requirement X 4. High efficiency Question ID: 630680198970 Option 1 ID: 630680771607 Option 2 ID: 630680771609 Option 3 ID: 630680771608 Option 4 ID: 630680771610 Status: Answered Chosen Option: 1 Q.98 Isochronism in a governor is desirable when _____. X 1. the engine operates at low speeds X 2. the engine operates at high speeds X 3. the engine is just getting started 4. one speed is desired under one load Question ID: 630680502673 Option 1 ID: 6306801964274 Option 2 ID: 6306801964275 Option 3 ID: 6306801964276 Option 4 ID: 6306801964277

Status: Answered

Q.99 The volumetric efficiency of a single-stage reciprocating air compressor is the ratio of the:

Ans X 1. swept volume to the clearance volume

2. free air delivered to the displacement of the compressor

X 3. swept volume to the effective swept volume

X 4. displacement of the compressor to the free air delivered

Question ID: 630680181651 Option 1 ID: 630680703848 Option 2 ID: 630680703846 Option 3 ID: 630680703849 Option 4 ID: 630680703847 Status: Answered

Chosen Option : 2

Q.100 When a system is undergoing constant volume process, then heat transfer is equal to:

Ans X 1. change in entropy

X 2. change in enthalpy

X 3. work transfer

Question ID: 630680403968 Option 1 ID: 6306801575361 Option 2 ID: 6306801575359 Option 3 ID: 6306801575360 Option 4 ID: 6306801575358

Status : Answered