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Subject	JUNIOR ENGINEER (MECHANICAL)

Section : General Awareness

Q.1 Which among the following is an autobiography of Dalai Lama?

- Ans
- ☒ 1. Living History
 - ☒ 2. My Life
 - ☒ 3. Walk This Way
 - ☒ 4. Freedom in Exile

Question ID : 630680278385
Option 1 ID : 6306801081897
Option 2 ID : 6306801081899
Option 3 ID : 6306801081900
Option 4 ID : 6306801081898
Status : Not Answered
Chosen Option : --

Q.2 The Rowlatt Act, which authorized the British government to detain individuals without trial, was passed in which year?

- Ans
- ☒ 1. 1901
 - ☒ 2. 1909
 - ☒ 3. 1925
 - ☒ 4. 1919

Question ID : 630680278401
Option 1 ID : 6306801081963
Option 2 ID : 6306801081964
Option 3 ID : 6306801081961
Option 4 ID : 6306801081962
Status : Answered
Chosen Option : 4

Q.3 कौन सा सूक्ष्म वित्तीय (माइक्रोफाइनेंस) संस्थान स्टॉक एक्सचेंज में सूचीबद्ध होने वाला भारत का पहला संस्थान बना है?

- Ans
- ☒

 1. SKS सूक्ष्म वित्तीय (माइक्रोफाइनेंस)
- ☐

 2. भारत वित्तीय समावेशन लिमिटेड
- ☐

 3. उज्जीवन वित्तीय सेवाएं
- ☐

 4. बंधन बैंक

Question ID : 630680278393

Option 1 ID : 6306801081929

Option 2 ID : 6306801081932

Option 3 ID : 6306801081930

Option 4 ID : 6306801081931

Status : Not Answered

Chosen Option : --

Q.4 _____ was started by Mirza Gulam Ahmed in 1889 in order to spread western education among Indian Muslims.

- Ans
- ☐

 1. All India Muslim Movement
- ☒

 2. Ahmadiya Movement
- ☐

 3. Wahabi Movement
- ☐

 4. Faraizi Movement

Question ID : 630680278402

Option 1 ID : 6306801081968

Option 2 ID : 6306801081965

Option 3 ID : 6306801081966

Option 4 ID : 6306801081967

Status : Not Answered

Chosen Option : --

Q.5 The President nominates _____members of the Rajya Sabha.

- Ans
- ☐

 1. 14
- ☒

 2. 12
- ☐

 3. 18
- ☐

 4. 16

Question ID : 630680278406

Option 1 ID : 6306801081982

Option 2 ID : 6306801081981

Option 3 ID : 6306801081984

Option 4 ID : 6306801081983

Status : Answered

Chosen Option : 2

Q.6 Who among the following leaders was not associated with the Arya Samaj, a reform movement founded by Swami Dayananda Saraswati?

- Ans
- ☐

 1. Swami Shraddhanand
- ☐

 2. Pandit Lekh Ram
- ☐

 3. Swami Virajanand Dandeesha
- ☒

 4. Lala Lajpat Rai

Question ID : 630680278404

Option 1 ID : 6306801081974

Option 2 ID : 6306801081973

Option 3 ID : 6306801081975

Option 4 ID : 6306801081976

Status : Answered

Chosen Option : 4

Q.7 निम्नलिखित में से किस नदी को पुराणिक नदी के नाम से भी जाना जाता है?

- Ans ☒ 1. सिंधु
☒ 2. नर्मदा
☒ 3. ब्रह्मपुत्र
☒ 4. तापी

Question ID : 630680278394
 Option 1 ID : 6306801081935
 Option 2 ID : 6306801081933
 Option 3 ID : 6306801081936
 Option 4 ID : 6306801081934
 Status : Answered
 Chosen Option : 1

Q.8 According to the Census 2011, which among the following states has the lowest female literacy rate?

- Ans ☒ 1. Bihar
☒ 2. Telangana
☒ 3. Rajasthan
☒ 4. West Bengal

Question ID : 630680278399
 Option 1 ID : 6306801081953
 Option 2 ID : 6306801081954
 Option 3 ID : 6306801081955
 Option 4 ID : 6306801081956
 Status : Answered
 Chosen Option : 1

Q.9 According to the recently updated data by the World Bank in 2022, what is the poverty line level of urban areas in India?

- Ans ☒ 1. Rs 1000-1100 per month
☒ 2. Rs 1200-1300 per month
☒ 3. Rs 800-900 per month
☒ 4. Rs 1500-1600 per month

Question ID : 630680278381
 Option 1 ID : 6306801081883
 Option 2 ID : 6306801081881
 Option 3 ID : 6306801081882
 Option 4 ID : 6306801081884
 Status : Not Answered
 Chosen Option : --

Q.10 The Central Institute of Indian Languages was established in which year?

- Ans ☒ 1. 1985
☒ 2. 1969
☒ 3. 1979
☒ 4. 1972

Question ID : 630680278391
 Option 1 ID : 6306801081923
 Option 2 ID : 6306801081922
 Option 3 ID : 6306801081924
 Option 4 ID : 6306801081921
 Status : Not Answered
 Chosen Option : --

Q.11 त्रिपुरा में मनाई जाने वाली खर्ची पूजा, _____ को सम्मान देने की एक पवित्र प्रक्रिया है।

- Ans
- ☒ 1. सूर्य
 - ☒ 2. चंद्रमा
 - ☒ 3. पृथ्वी
 - ☒ 4. हवा

Question ID : 630680278388
Option 1 ID : 6306801081910
Option 2 ID : 6306801081911
Option 3 ID : 6306801081909
Option 4 ID : 6306801081912
Status : Answered
Chosen Option : 1

Q.12 निम्नलिखित में से कौन सी हवा तृतीयक हवा है?

- Ans
- ☒ 1. पश्चिमी हवा
 - ☒ 2. पूर्वी हवा
 - ☒ 3. लू
 - ☒ 4. मानसूनी हवाएँ

Question ID : 630680278396
Option 1 ID : 6306801081943
Option 2 ID : 6306801081942
Option 3 ID : 6306801081944
Option 4 ID : 6306801081941
Status : Answered
Chosen Option : 2

Q.13 निम्नलिखित में से कौन सा उष्णकटिबंधीय वर्षा वन का उदाहरण नहीं है?

- Ans
- ☒ 1. महागनी
 - ☒ 2. इबोनी
 - ☒ 3. साल
 - ☒ 4. शीशम

Question ID : 630680278395
Option 1 ID : 6306801081938
Option 2 ID : 6306801081937
Option 3 ID : 6306801081940
Option 4 ID : 6306801081939
Status : Answered
Chosen Option : 1

Q.14 Who among the following is the fastest player to score 5000 runs in One Day International (ODI) cricket?

- Ans
- ☒ 1. Virat Kohli
 - ☒ 2. Hashim Amla
 - ☒ 3. Babar Azam
 - ☒ 4. David Warner

Question ID : 630680278384
Option 1 ID : 6306801081895
Option 2 ID : 6306801081893
Option 3 ID : 6306801081894
Option 4 ID : 6306801081896
Status : Answered
Chosen Option : 4

Q.15 निम्नलिखित में से किसे लॉरियस वर्ल्ड स्पोर्ट्समैन ऑफ द ईयर 2023 से सम्मानित किया गया है?

- Ans
- ☒ 1. विराट कोहली
 - ☒ 2. क्रिस्टियानो रोनाल्डो
 - ☒ 3. शुभमन गिल
 - ☒ 4. लियोनेल मेसी

Question ID : 630680278382
Option 1 ID : 6306801081886
Option 2 ID : 6306801081887
Option 3 ID : 6306801081885
Option 4 ID : 6306801081888
Status : Answered
Chosen Option : 1

Q.16 बड़े हुए भूमि करों के खिलाफ एक सफल किसान आंदोलन, बारदोली सत्याग्रह का नेतृत्व किस भारतीय नेता ने किया था?

- Ans
- ☒ 1. सुभाष चन्द्र बोस
 - ☒ 2. जवाहरलाल नेहरू
 - ☒ 3. सरदार वल्लभभाई पटेल
 - ☒ 4. महात्मा गांधी

Question ID : 630680278403
Option 1 ID : 6306801081971
Option 2 ID : 6306801081970
Option 3 ID : 6306801081972
Option 4 ID : 6306801081969
Status : Answered
Chosen Option : 3

Q.17 _____ is the central recruiting agency that has detailed provisions with regard to composition appointment and removal of the member.

- Ans
- ☒ 1. Finance Commission
 - ☒ 2. Election Commission of India
 - ☒ 3. Union Public Service Commission of India
 - ☒ 4. Comptroller and Auditor General of India

Question ID : 630680278405
Option 1 ID : 6306801081980
Option 2 ID : 6306801081977
Option 3 ID : 6306801081978
Option 4 ID : 6306801081979
Status : Answered
Chosen Option : 3

Q.18 The unemployment arising from the mismatch between the jobs available in the market and the skills of the available workers in the market is called _____.

- Ans
- ☒ 1. Disguised
 - ☒ 2. Structural
 - ☒ 3. Cyclical
 - ☒ 4. Seasonal

Question ID : 630680278392
Option 1 ID : 6306801081925
Option 2 ID : 6306801081927
Option 3 ID : 6306801081928
Option 4 ID : 6306801081926
Status : Answered
Chosen Option : 2

Q.19 महावीर जयंती, जो महावीर के जन्मदिन के रूप में, _____ के महीने में मनाई जाती है।

- Ans
- ☒ 1. जून
 - ☒ 2. अप्रैल
 - ☒ 3. मई
 - ☒ 4. जुलाई

Question ID : 630680278387
 Option 1 ID : 6306801081907
 Option 2 ID : 6306801081905
 Option 3 ID : 6306801081906
 Option 4 ID : 6306801081908
 Status : Answered
 Chosen Option : 2

Q.20 निम्नलिखित में से किसने दिल्ली में कुव्वत अल इस्लाम मस्जिद और अजमेर में अढ़ाई-दिन-का-झोंपरा मस्जिद का निर्माण करवाया था?

- Ans
- ☒ 1. कुतुबुद्दीन ऐबक
 - ☒ 2. अलाउद्दीन खिलजी
 - ☒ 3. इब्राहिम लोदी
 - ☒ 4. इल्तुतमिश

Question ID : 630680278400
 Option 1 ID : 6306801081957
 Option 2 ID : 6306801081959
 Option 3 ID : 6306801081960
 Option 4 ID : 6306801081958
 Status : Answered
 Chosen Option : 1

Q.21 नवीनतम साहित्य अकादमी पुरस्कार कितनी भाषाओं में लिखे गए साहित्यिक कार्यों का विश्लेषण और मूल्यांकन करता है?

- Ans
- ☒ 1. 20
 - ☒ 2. 26
 - ☒ 3. 18
 - ☒ 4. 24

Question ID : 630680278386
 Option 1 ID : 6306801081904
 Option 2 ID : 6306801081901
 Option 3 ID : 6306801081902
 Option 4 ID : 6306801081903
 Status : Not Answered
 Chosen Option : --

Q.22 _____ refers to the physical or social separation of people based on characteristics such as race, ethnicity, or gender.

- Ans
- ☒ 1. Pluralism
 - ☒ 2. Segregation
 - ☒ 3. Integration
 - ☒ 4. Assimilation

Question ID : 630680278398
Option 1 ID : 6306801081949
Option 2 ID : 6306801081952
Option 3 ID : 6306801081951
Option 4 ID : 6306801081950
Status : Answered
Chosen Option : 2

Q.23 Which among the following is the first moon mission of India?

- Ans
- ☒ 1. Chandrayan-II
 - ☒ 2. Astrosat
 - ☒ 3. Chandrayan-I
 - ☒ 4. Gaganyaan-I

Question ID : 630680278408
Option 1 ID : 6306801081990
Option 2 ID : 6306801081989
Option 3 ID : 6306801081991
Option 4 ID : 6306801081992
Status : Marked For Review
Chosen Option : 2

Q.24 Which among the following Hindu festivals is dedicated to Surya, the Sun God?

- Ans
- ☒ 1. Maghi
 - ☒ 2. Dussehra
 - ☒ 3. Chhath
 - ☒ 4. Holi

Question ID : 630680278389
Option 1 ID : 6306801081914
Option 2 ID : 6306801081913
Option 3 ID : 6306801081915
Option 4 ID : 6306801081916
Status : Answered
Chosen Option : 3

Q.25 Who appoints the Chief Justice of India?

- Ans
- ☒ 1. Prime Minister
 - ☒ 2. President
 - ☒ 3. Governors of states
 - ☒ 4. Supreme Court collegium

Question ID : 630680278407
Option 1 ID : 6306801081986
Option 2 ID : 6306801081985
Option 3 ID : 6306801081987
Option 4 ID : 6306801081988
Status : Answered
Chosen Option : 2

Q.26 Which of the following languages is not considered one of the classical languages of India?

- Ans
1. Kannada

2. Urdu

3. Odia

4. Malayalam

Question ID : 630680278390

Option 1 ID : 6306801081918

Option 2 ID : 6306801081917

Option 3 ID : 6306801081920

Option 4 ID : 6306801081919

Status : Answered

Chosen Option : 4

Q.27 Transparency International has released the Corruption Perceptions Index (CPI) 2021 in which India has been ranked at ____th spot.

- Ans
1. 80

2. 70

3. 85

4. 75

Question ID : 630680278380

Option 1 ID : 6306801081879

Option 2 ID : 6306801081877

Option 3 ID : 6306801081880

Option 4 ID : 6306801081878

Status : Not Answered

Chosen Option : --

Q.28 Which among the following team won the 2023 Women T20 Cricket World Cup?

- Ans
1. Sri Lanka

2. India

3. South Africa

4. Australia

Question ID : 630680278383

Option 1 ID : 6306801081889

Option 2 ID : 6306801081892

Option 3 ID : 6306801081890

Option 4 ID : 6306801081891

Status : Answered

Chosen Option : 2

Q.29 According to the Census 2011, what is the population density of India?

- Ans
1. 382

2. 361

3. 325

4. 353

Question ID : 630680278397

Option 1 ID : 6306801081947

Option 2 ID : 6306801081945

Option 3 ID : 6306801081948

Option 4 ID : 6306801081946

Status : Answered

Chosen Option : 2

Q.30 _____ is a scheme meant to increase the Wi-fi access throughout the country.

- Ans ☒ 1. Make in India
- ☒ 2. PM-WANI
- ☒ 3. Pradhan Mantri Jan Dhan Yojana
- ☒ 4. Swachh Bharat Abhiyan

Question ID : 630680278379

Option 1 ID : 6306801081874

Option 2 ID : 6306801081873

Option 3 ID : 6306801081875

Option 4 ID : 6306801081876

Status : Answered

Chosen Option : 2

Section : Reasoning

Q.1 Two statements are given followed by two conclusions numbered I and II. Assuming the statements to be true, even if they seem to be at variance with commonly known facts, decide which of the conclusions logically follow(s) from the statements.

Statements:

Some mountains are seas.

No sea is a land.

Conclusions:

I. Some mountains are land.

II. No land is a sea.

- Ans ☒ 1. Neither conclusion I nor II follows
- ☒ 2. Only conclusion I follows
- ☒ 3. Only conclusion II follows
- ☒ 4. Both conclusions I and II follow

Question ID : 630680278433

Option 1 ID : 6306801082092

Option 2 ID : 6306801082089

Option 3 ID : 6306801082090

Option 4 ID : 6306801082091

Status : Answered

Chosen Option : 3

Q.2 Choose the figure which is different from the rest.

Ans

- ☒ 1. 
- ☒ 2. 
- ☒ 3. 
- ☒ 4. 

Question ID : 630680278437
Option 1 ID : 6306801082105
Option 2 ID : 6306801082107
Option 3 ID : 6306801082106
Option 4 ID : 6306801082108

Status : Answered
Chosen Option : 2

Q.3 How many letters are there in the given series that are immediately preceded by a consonant and immediately followed by a consonant?
ERA@YFIQOPU#LJIWS@

- Ans
- ☒ 1. 3
 - ☒ 2. 4
 - ☒ 3. 2
 - ☒ 4. 5

Question ID : 630680278416
Option 1 ID : 6306801082022
Option 2 ID : 6306801082021
Option 3 ID : 6306801082024
Option 4 ID : 6306801082023

Status : Answered
Chosen Option : 3

Q.4 यदि 'M × N' का अर्थ है 'M, N की बहन है।' यदि 'M + N' का अर्थ है 'M, N का भाई है।' यदि 'M ÷ N' का अर्थ है 'N, M का पुत्र है।' यदि 'M - N' का अर्थ है 'M, N का पति है।' व्यंजक 'X × Y + Z - R ÷ T' में T, X से कैसे संबंधित है?

- Ans

☒ 1. बेटा

☒ 2. भाई

☒ 3. भतीजा

☒ 4. भांजा

Question ID : 630680278417

Option 1 ID : 6306801082027

Option 2 ID : 6306801082028

Option 3 ID : 6306801082026

Option 4 ID : 6306801082025

Status : Answered

Chosen Option : 3

Q.5 Sunaina finds that in a row of girls, she is eighth from the right and 17th from the left. How many girls must be added to the row such that there are 30 girls in the row?

- Ans

☒ 1. 3

☒ 2. 5

☒ 3. 6

☒ 4. 4

Question ID : 630680278429

Option 1 ID : 6306801082074

Option 2 ID : 6306801082076

Option 3 ID : 6306801082075

Option 4 ID : 6306801082073

Status : Answered

Chosen Option : 3

Q.6 Five boys H, I, J, K, and L are seating in a row facing north. K is seating to the immediate right of J. L is sitting exactly in between H and I. No one sits to the left of H. Who sits to the immediate right of I?

- Ans

☒ 1. L

☒ 2. J

☒ 3. K

☒ 4. H

Question ID : 630680278431

Option 1 ID : 6306801082083

Option 2 ID : 6306801082082

Option 3 ID : 6306801082081

Option 4 ID : 6306801082084

Status : Answered

Chosen Option : 2

Q.7 In the question, a statement is given, followed by two conclusions, I and II. You have to decide which of the given conclusions, if any, follows from the given statement.
Statement: $H < I > J$, $L < M = H$
Conclusion I: $L < J$
Conclusion II: $J > H$

- Ans
- ☒ 1. Only I follows
 - ☒ 2. Neither I nor II follows
 - ☒ 3. Only II follows
 - ☒ 4. Both I and II follows

Question ID : 630680278419
Option 1 ID : 6306801082033
Option 2 ID : 6306801082036
Option 3 ID : 6306801082034
Option 4 ID : 6306801082035
Status : Answered
Chosen Option : 4

Q.8 Which of the following numbers will replace the question mark (?) in the given series?
1728, 2744, 4096, 5832, ?

- Ans
- ☒ 1. 8000
 - ☒ 2. 8324
 - ☒ 3. 8100
 - ☒ 4. 7856

Question ID : 630680278411
Option 1 ID : 6306801082003
Option 2 ID : 6306801082004
Option 3 ID : 6306801082002
Option 4 ID : 6306801082001
Status : Answered
Chosen Option : 2

Q.9 Four letter-clusters have been given, out of which three are alike in some manner and one is different. Select the odd letter-cluster.

- Ans
- ☒ 1. SRT
 - ☒ 2. IHJ
 - ☒ 3. MLN
 - ☒ 4. KLM

Question ID : 630680278424
Option 1 ID : 6306801082056
Option 2 ID : 6306801082055
Option 3 ID : 6306801082053
Option 4 ID : 6306801082054
Status : Answered
Chosen Option : 4

Q.10 Which of the following numbers will replace the question mark (?) in the given series?
113, ?, 226, 678, 2712

- Ans
- ☒ 1. 187
 - ☒ 2. 113
 - ☒ 3. 165
 - ☒ 4. 176

Question ID : 630680278412
Option 1 ID : 6306801082008
Option 2 ID : 6306801082005
Option 3 ID : 6306801082007
Option 4 ID : 6306801082006
Status : Answered
Chosen Option : 1

Q.11 There are eight persons A, B, C, D, E, F, G and H are sitting around a square table in such a way that four of them sit at the corners while four sit in the middle of each of the four sides. The ones who sit at the four corners face outside the centre while those who sit in the middle of the sides face inside. B sits second to the right of A. C sits third to the left of H who sits to the immediate right of A. E sits third to the left of F. C faces inside. G sits second to the left of F. Who sits opposite to B?

- Ans
- ☒ 1. E
 - ☒ 2. A
 - ☒ 3. H
 - ☒ 4. F

Question ID : 630680278432
Option 1 ID : 6306801082086
Option 2 ID : 6306801082087
Option 3 ID : 6306801082088
Option 4 ID : 6306801082085
Status : Answered
Chosen Option : 4

Q.12 Three Statements are given followed by two conclusions numbered I and II. Assuming the statements to be true, even if they seem to be at variance with commonly known facts, decide which of the conclusions logically follow(s) from the statements.

Statements:
Some cups are plates.
All plates are bowls.
No bowl is a spoon.

Conclusions:
I. All cups being bowls is a possibility.
II. Some cups are spoons.

- Ans
- ☒ 1. Neither conclusion I nor II follows
 - ☒ 2. Only conclusion II follows
 - ☒ 3. Only conclusion I follows
 - ☒ 4. Both conclusions I and II follow

Question ID : 630680278434
Option 1 ID : 6306801082096
Option 2 ID : 6306801082094
Option 3 ID : 6306801082093
Option 4 ID : 6306801082095
Status : Answered
Chosen Option : 1

Q.13 Select the option that is related to the third letter cluster in the same way as the second letter cluster is related to the first letter cluster.
MAT : NZG :: LOVE : ?

- Ans ☒ 1. OLEV
☒ 2. PKFU
☒ 3. PLEU
☒ 4. OKFV

Question ID : 630680278421
Option 1 ID : 6306801082041
Option 2 ID : 6306801082042
Option 3 ID : 6306801082044
Option 4 ID : 6306801082043
Status : Answered
Chosen Option : 1

Q.14 चार शब्द दिए गए हैं, जिनमें से तीन किसी तरीके से समान हैं और एक भिन्न है। विषम शब्द का चयन करें।

- Ans ☒ 1. आनंद
☒ 2. उदासी
☒ 3. उत्साह
☒ 4. यूफोरिया

Question ID : 630680278425
Option 1 ID : 6306801082059
Option 2 ID : 6306801082057
Option 3 ID : 6306801082058
Option 4 ID : 6306801082060
Status : Answered
Chosen Option : 2

Q.15 Calculate the sum of 6.75, 8.91, and 4.25 and round the answer to two decimal places.

- Ans ☒ 1. 16.43
☒ 2. 14.67
☒ 3. 18.34
☒ 4. 19.91

Question ID : 630680278410
Option 1 ID : 6306801081998
Option 2 ID : 6306801081997
Option 3 ID : 6306801081999
Option 4 ID : 6306801082000
Status : Answered
Chosen Option : 4

Q.16 Which of the following numbers will be a number of the given series?
11, 18, 25, 32, 39,

- Ans ☒ 1. 574
☒ 2. 347
☒ 3. 421
☒ 4. 222

Question ID : 630680278413
Option 1 ID : 6306801082009
Option 2 ID : 6306801082011
Option 3 ID : 6306801082012
Option 4 ID : 6306801082010
Status : Answered
Chosen Option : 2

Q.17 A, B, C, D और E पांच मंजिला इमारत में रहते हैं, प्रत्येक मंजिल में केवल एक फ्लैट है। सबसे निचली मंजिल की संख्या 1 है और उसके ठीक ऊपर वाली मंजिल की संख्या 2 है और इसी प्रकार B, A की मंजिल से तीन मंजिल नीचे रहता है। A शीर्ष तल पर नहीं रहता है। E, C के ठीक ऊपर वाली मंजिल पर रहता है। शीर्ष मंजिल पर कौन रहता है?

- Ans
- ☒ 1. C
 - ☒ 2. D
 - ☒ 3. B
 - ☒ 4. E

Question ID : 630680278428

Option 1 ID : 6306801082072

Option 2 ID : 6306801082071

Option 3 ID : 6306801082070

Option 4 ID : 6306801082069

Status : Answered

Chosen Option : 2

Q.18 Select the option that is related to the third word in the same way as the second word is related to the first word.

Dentist : Teeth :: Optometrist : ?

- Ans
- ☒ 1. Mouth
 - ☒ 2. Lungs
 - ☒ 3. Ears
 - ☒ 4. Eyes

Question ID : 630680278423

Option 1 ID : 6306801082051

Option 2 ID : 6306801082050

Option 3 ID : 6306801082052

Option 4 ID : 6306801082049

Status : Answered

Chosen Option : 4

Q.19 एक महिला की ओर इशारा करते हुए श्रेया ने कहा, "उसका पुत्र मेरी माता का पति है।" महिला श्रेया से कैसे संबंधित है?

- Ans
- ☒ 1. सास
 - ☒ 2. माता
 - ☒ 3. दादी
 - ☒ 4. बहन

Question ID : 630680278418

Option 1 ID : 6306801082030

Option 2 ID : 6306801082029

Option 3 ID : 6306801082032

Option 4 ID : 6306801082031

Status : Answered

Chosen Option : 3

Q.20 In the question, a statement is given, followed by two conclusions, I and II. You have to decide which of the given conclusions, if any, follows from the given statement.

Statement: $A < B < C = D, D \geq F > E$

Conclusion I: $A < D$

Conclusion II: $C \geq F$

- Ans
- ☒ 1. Only I follows
 - ☒ 2. Both I and II follows
 - ☒ 3. Only II follows
 - ☒ 4. Neither I nor II follows

Question ID : 630680278420

Option 1 ID : 6306801082037

Option 2 ID : 6306801082039

Option 3 ID : 6306801082038

Option 4 ID : 6306801082040

Status : Answered

Chosen Option : 2

Q.21 चार शब्द युग्म दिए गए हैं, जिनमें से तीन किसी तरीके से समान हैं और एक भिन्न है। विषम शब्द युग्म का चयन करें।

- Ans
- ☒ 1. वकील : कोर्ट
 - ☒ 2. डॉक्टर : अस्पताल
 - ☒ 3. टीचर : स्कूल
 - ☒ 4. पोप : मंदिर

Question ID : 630680278426

Option 1 ID : 6306801082062

Option 2 ID : 6306801082061

Option 3 ID : 6306801082063

Option 4 ID : 6306801082064

Status : Answered

Chosen Option : 4

Q.22 Which two numbers should be interchanged to make the given equation correct?

$$12 + 15 - 21 \div 3 \times 2 = 17$$

- Ans
- ☒ 1. 17 & 21
 - ☒ 2. 12 & 15
 - ☒ 3. 3 & 2
 - ☒ 4. 15 & 17

Question ID : 630680278409

Option 1 ID : 6306801081995

Option 2 ID : 6306801081993

Option 3 ID : 6306801081996

Option 4 ID : 6306801081994

Status : Answered

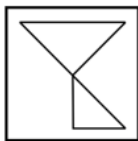
Chosen Option : 4

Q.23 Seven friends Anand, Binod, Rishi, Sameer, Gautam, Mukesh, Sanjay are sitting around a circular table facing the centre. Rishi and Gautam are not sitting next to each other. Sanjay is sitting between Binod and Mukesh. Mukesh is sitting to the immediate left of Rishi. Sameer is sitting between Anand and Gautam. Who is sitting to the immediate left of Anand?

- Ans ☒ 1. Rishi
- ☒ 2. Sameer
- ☒ 3. Binod
- ☒ 4. Sanjay

Question ID : 630680278430
Option 1 ID : 6306801082077
Option 2 ID : 6306801082078
Option 3 ID : 6306801082079
Option 4 ID : 6306801082080
Status : Answered
Chosen Option : 1

Q.24 From the given answer figures, select the one in which the question figure is embedded.



Ans

- ☒ 1.
- ☒ 2.
- ☒ 3.
- ☒ 4.

Question ID : 630680278436
Option 1 ID : 6306801082103
Option 2 ID : 6306801082104
Option 3 ID : 6306801082102
Option 4 ID : 6306801082101
Status : Answered
Chosen Option : 3

Q.25 Anil visits five cities namely Delhi, Mathura, Gurgaon, Agra, and Jaipur on different days of a week from Monday to Friday. He visits Delhi three days after visiting Mathura. He visits Agra on Tuesday and he visits Gurgaon after visiting Delhi. On which day he visits Jaipur?

- Ans

✗

1. Friday

✗

2. Thursday

✓

3. Wednesday

✗

4. Monday

Question ID : 630680278427

Option 1 ID : 6306801082067

Option 2 ID : 6306801082066

Option 3 ID : 6306801082068

Option 4 ID : 6306801082065

Status : Answered

Chosen Option : 3

Q.26 दी गई श्रंखला में ऐसी कितनी संख्याएं हैं जिनके ठीक पहले एक प्रतीक है और ठीक बाद एक अन्य प्रतीक है?
#2% 5@3*\$6 & 1^ ? 0 \$ 3 @

- Ans

✓

1. 7

✗

2. 9

✗

3. 5

✗

4. 6

Question ID : 630680278415

Option 1 ID : 6306801082017

Option 2 ID : 6306801082020

Option 3 ID : 6306801082018

Option 4 ID : 6306801082019

Status : Answered

Chosen Option : 1

Q.27 Arrange the given words in the alphabetical order.

1. Obnoxious

2. Oblivion

3. Ostentatious

4. Opulent

- Ans

✗

1. 1423

✗

2. 2431

✗

3. 2314

✓

4. 2143

Question ID : 630680278414

Option 1 ID : 6306801082013

Option 2 ID : 6306801082016

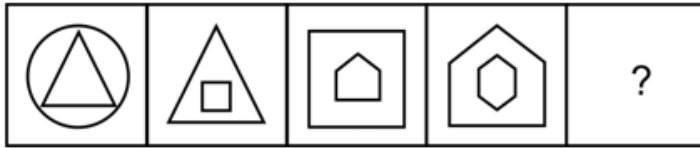
Option 3 ID : 6306801082015

Option 4 ID : 6306801082014

Status : Answered

Chosen Option : 4

Q.28 Which of the following answer figure completes the question figure?



Ans

✗ 1.



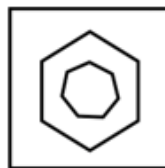
✗ 2.



✗ 3.



✓ 4.



Question ID : 630680278438

Option 1 ID : 6306801082110

Option 2 ID : 6306801082111

Option 3 ID : 6306801082109

Option 4 ID : 6306801082112

Status : Answered

Chosen Option : 4

Q.29 उस विकल्प का चयन करें जो तीसरे शब्द से उसी प्रकार से संबंधित है जिस प्रकार से दूसरा शब्द पहले शब्द से संबंधित है।

भीतर : कैरम :: बाहर : ?

Ans ✗ 1. लूडो

✓ 2. हॉकी

✗ 3. शतरंज

✗ 4. बॉलिंग

Question ID : 630680278422

Option 1 ID : 6306801082046

Option 2 ID : 6306801082048

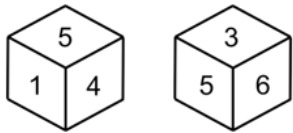
Option 3 ID : 6306801082045

Option 4 ID : 6306801082047

Status : Answered

Chosen Option : 2

Q.30 Two different positions of the same dice are given below. Find the number opposite of 3.



- Ans

☒ 1. 1

☒ 2. 4

☒ 3. 5

☒ 4. 6

Question ID : 630680278435

Option 1 ID : 6306801082097

Option 2 ID : 6306801082099

Option 3 ID : 6306801082098

Option 4 ID : 6306801082100

Status : Answered

Chosen Option : 2

Section : Domain Knowledge

Q.1 Which of the following is an heat exchanger which feed water is heated from heat available with exhaust gases?

- Ans

☒ 1. Economiser

☒ 2. Feed pump

☒ 3. Superheater

☒ 4. Air preheater

Question ID : 630680278208

Option 1 ID : 6306801081191

Option 2 ID : 6306801081192

Option 3 ID : 6306801081189

Option 4 ID : 6306801081190

Status : Answered

Chosen Option : 1

Q.2 Which of the following is an incorrect assumption made in Bernoulli's equation?

- Ans

☒ 1. The viscosity of the fluid is zero

☒ 2. Rotational flow

☒ 3. Incompressible flow

☒ 4. Steady flow

Question ID : 630680278142

Option 1 ID : 6306801080925

Option 2 ID : 6306801080927

Option 3 ID : 6306801080928

Option 4 ID : 6306801080926

Status : Answered

Chosen Option : 2

Q.3 Consider the following statements:
A) For isentropic flow the gain of kinetic energy is equal to the enthalpy drop of the steam in a steam nozzle.
B) Velocity of the steam leaving the steam nozzle is given by $44.72 \sqrt{(kH)}$ m/sec.
Where K is the friction factor and H is the enthalpy drop.

- Ans
- ☒ 1. Only B is true
 - ☒ 2. Neither A or B is true
 - ☒ 3. Both A and B is true
 - ☒ 4. Only A is true

Question ID : 630680278210
Option 1 ID : 6306801081198
Option 2 ID : 6306801081200
Option 3 ID : 6306801081199
Option 4 ID : 6306801081197
Status : Answered
Chosen Option : 3

Q.4 COP of a heat pump is equal to _____.

- Ans
- ☒ 1. 1- COP of refrigerator
 - ☒ 2. COP of refrigerator
 - ☒ 3. COP of refrigerator +1
 - ☒ 4. COP of refrigerator -1

Question ID : 630680278165
Option 1 ID : 6306801081020
Option 2 ID : 6306801081019
Option 3 ID : 6306801081018
Option 4 ID : 6306801081017
Status : Answered
Chosen Option : 3

Q.5 In the performance map of an SI engine, moving from the region of highest efficiency along a line of constant bmep the brake specific fuel consumption _____.

- Ans
- ☒ 1. increases due to increased friction at higher piston speeds.
 - ☒ 2. decreases due to decreased friction at higher piston speeds.
 - ☒ 3. decreases due to increased friction at higher piston speeds.
 - ☒ 4. increases due to decreased friction at higher piston speeds.

Question ID : 630680278230
Option 1 ID : 6306801081278
Option 2 ID : 6306801081280
Option 3 ID : 6306801081279
Option 4 ID : 6306801081277
Status : Not Answered
Chosen Option : --

Q.6 Which of the following loss of energy in a pipe is a major loss?

- Ans



1. Loss of head at the entrance



2. Loss of head due to bend



3. Loss of head due to friction



4. Loss of head due to sudden enlargement

Question ID : 630680278154
 Option 1 ID : 6306801080975
 Option 2 ID : 6306801080974
 Option 3 ID : 6306801080976
 Option 4 ID : 6306801080973
 Status : Answered
 Chosen Option : 3

Q.7 Which of the following is A) Fire tube boiler B) Water Tube boiler?

- Ans



1. A) Cochran boiler B) Lancashire boiler



2. A) Babcock-Wilcox boiler B) Stirling boiler



3. A) Cornish boiler B) La-Mont boiler



4. A) La-Mont boiler B) Benson boiler

Question ID : 630680278207
 Option 1 ID : 6306801081185
 Option 2 ID : 6306801081188
 Option 3 ID : 6306801081186
 Option 4 ID : 6306801081187
 Status : Answered
 Chosen Option : 3

Q.8 Consider the two statements assuming the conditions of a rigid body which is not moving at all to be in equilibrium.
 A) The sum of external forces on the rigid object must be equal to zero.
 B) Sum of external torques on a rigid object must be equal to zero.

- Ans



1. Only B is true



2. Both A and B are true



3. Neither A nor B is true



4. Only A is true

Question ID : 630680278119
 Option 1 ID : 6306801080834
 Option 2 ID : 6306801080835
 Option 3 ID : 6306801080836
 Option 4 ID : 6306801080833
 Status : Answered
 Chosen Option : 2

Q.9 A Carnot engine absorbs heat from a reservoir. It absorbs 473.15J of heat at the temperature of 200° C. The heat rejected at a reservoir which is maintained at the temperature of 0° C. Find the heat rejected and work done.

- Ans

1. Heat rejected = 273.16J, Work done=50J

2. Heat rejected = 0J, Work done=100J

3. Heat rejected = 373.15J, Work done=100J

4. Heat rejected = 273.15J, Work done=200J

Question ID : 630680278226
 Option 1 ID : 6306801081262
 Option 2 ID : 6306801081263
 Option 3 ID : 6306801081261
 Option 4 ID : 6306801081264
 Status : Answered
 Chosen Option : 4

Q.10 The _____ working compartment consists of special semi-circular shaped vanes cast into stainless steel rotor and stators.

- Ans

1. prony brake dynamometer

2. rope brake dynamometer

3. hydraulic dynamometer

4. torsion dynamometer

Question ID : 630680278231
 Option 1 ID : 6306801081281
 Option 2 ID : 6306801081282
 Option 3 ID : 6306801081284
 Option 4 ID : 6306801081283
 Status : Answered
 Chosen Option : 2

Q.11 Consider the following statements related to IC engines:
 A) If the fuel air mixture is made lean it will result in lower specific heat.
 B) As the fuel air mixture gets richer both the efficiency and power output keeps on increasing.

- Ans

1. Only A is true

2. Neither A nor B is true

3. Only B is true

4. Both A and B is true

Question ID : 630680278199
 Option 1 ID : 6306801081153
 Option 2 ID : 6306801081156
 Option 3 ID : 6306801081154
 Option 4 ID : 6306801081155
 Status : Answered
 Chosen Option : 1

Q.12 Which of the following type of impeller of a centrifugal pump is used for pumping highly contaminated slurry type liquids?

- Ans

☒

1. Constricted Impeller
- ☒

2. Open Impeller
- ☒

3. Semi-Open Impeller
- ☒

4. Closed Impeller

Question ID : 630680278151

Option 1 ID : 6306801080963

Option 2 ID : 6306801080962

Option 3 ID : 6306801080964

Option 4 ID : 6306801080961

Status : Answered

Chosen Option : 4

Q.13 Time loss factor in an IC engine is:

- Ans

☒

1. loss of work on expansion stroke
- ☒

2. loss of heat from gases to cylinder walls.
- ☒

3. Leakage of fuels.
- ☒

4. time required for mixing of fuel and air.

Question ID : 630680278200

Option 1 ID : 6306801081159

Option 2 ID : 6306801081158

Option 3 ID : 6306801081160

Option 4 ID : 6306801081157

Status : Answered

Chosen Option : 4

Q.14 Surging in centrifugal compressors occurs when the refrigeration load decreases to _____.

- Ans

☒

1. 40 % below the rated capacity.
- ☒

2. 25 % below the rated capacity.
- ☒

3. 50 % below the rated capacity.
- ☒

4. 35 % below the rated capacity.

Question ID : 630680278162

Option 1 ID : 6306801081007

Option 2 ID : 6306801081005

Option 3 ID : 6306801081008

Option 4 ID : 6306801081006

Status : Not Answered

Chosen Option : --

Q.15 Consider the following statements:
A)For a low speed engine the intake valve closes 60 degrees after bottom dead centre and for a high speed engine the intake valve closes 10 degrees after bottom dead centre.
B)In an IC engine the exhaust valve is opened 40 to 70 degrees before bottom dead centre thereby reducing the cylinder pressure to halfway before the exhaust stroke begins.

- Ans

☒

1. Only B is true
- ☐

2. Only A is true
- ☐

3. Both A and B is true
- ☐

4. Neither A nor B is true

Question ID : 630680278235

Option 1 ID : 6306801081298

Option 2 ID : 6306801081297

Option 3 ID : 6306801081299

Option 4 ID : 6306801081300

Status : Not Answered

Chosen Option : --

Q.16 Consider the following statements:
A)Glass has a Poisson' ratio of 0.18 - 0.3.
B) Steel is more elastic than rubber

- Ans

☐

1. Neither A or B are true
- ☐

2. Only A is true
- ☒

3. Both A and B are true
- ☐

4. Only B is true

Question ID : 630680278171

Option 1 ID : 6306801081044

Option 2 ID : 6306801081041

Option 3 ID : 6306801081043

Option 4 ID : 6306801081042

Status : Answered

Chosen Option : 4

Q.17 Consider the following statements:
A) Horizontal line in the Mollier diagram represents isentropic process.
B) Vertical line in the Mollier diagram represents isenthalpic process.

- Ans

☐

1. Both A and B is true
- ☐

2. Only A is true
- ☐

3. Only B is true
- ☒

4. Neither A nor B is true

Question ID : 630680278223

Option 1 ID : 6306801081251

Option 2 ID : 6306801081249

Option 3 ID : 6306801081250

Option 4 ID : 6306801081252

Status : Answered

Chosen Option : 4

Q.18 What is the maximum working head for a low lift centrifugal pumps?

- Ans
-  1. up to 20 meters

 2. up to 10 meters

 3. up to 5 meters

 4. up to 15 meters

Question ID : 630680278150
 Option 1 ID : 6306801080960
 Option 2 ID : 6306801080958
 Option 3 ID : 6306801080957
 Option 4 ID : 6306801080959
 Status : Answered
 Chosen Option : 4

Q.19 The speed of a flywheel is 420 rpm. Find the approximate radius of a flywheel whose peripheral velocity is 22 m/s.

- Ans
-  1. 0.8 m

 2. 0.6 m

 3. 0.2 m

 4. 0.5 m

Question ID : 630680278178
 Option 1 ID : 6306801081072
 Option 2 ID : 6306801081071
 Option 3 ID : 6306801081069
 Option 4 ID : 6306801081070
 Status : Answered
 Chosen Option : 4

Q.20 Which of the following components is not a part of simple air cooling system for aircrafts?

- Ans
-  1. evaporator

 2. Heat exchanger

 3. gas turbine

 4. cooling turbine

Question ID : 630680278164
 Option 1 ID : 6306801081014
 Option 2 ID : 6306801081013
 Option 3 ID : 6306801081016
 Option 4 ID : 6306801081015
 Status : Answered
 Chosen Option : 2

- Q.21 Match the correct pair of combustion chambers for SI engines:
- 1) T-head Type :: A)One valve in the cylinder head and the other in cylinder block.
 - 2) L-Head type:: B)Used in early stage of engine development.
 - 3) I-Head type :: C)Two valves on the same side of the cylinder and operated by single camshaft.
 - 4) F-head type :: D) Also known as overhead valve.

Ans ☒ 1. 1-B, 2-D, 3-C, 4-A
☒ 2. 1-A, 2-C, 3-D, 4-B
☒ 3. 1-A, 2-D, 3-C, 4-B
☒ 4. 1-B, 2-C, 3-D, 4-A

Question ID : 630680278236
 Option 1 ID : 6306801081303
 Option 2 ID : 6306801081302
 Option 3 ID : 6306801081304
 Option 4 ID : 6306801081301
 Status : Answered
 Chosen Option : 1

- Q.22 A hydraulic press has a ram of 40 cm diameter and a plunger of 4 cm diameter. Find the weight applied to operate the press if it has to lift a weight of 100 N.

Ans ☒ 1. 3N
☒ 2. 1N
☒ 3. 4N
☒ 4. 2N

Question ID : 630680278153
 Option 1 ID : 6306801080970
 Option 2 ID : 6306801080971
 Option 3 ID : 6306801080972
 Option 4 ID : 6306801080969
 Status : Answered
 Chosen Option : 2

- Q.23 Consider the following statements:
- A) Reducing the number of piston rings in an IC engine reduces mechanical friction.
 - B) Friction mean effective pressure increases with increase in compression ratio in an IC engine.

Ans ☒ 1. Only A is true
☒ 2. Neither A nor B is true
☒ 3. Only B is true
☒ 4. Both A and B is true

Question ID : 630680278203
 Option 1 ID : 6306801081169
 Option 2 ID : 6306801081172
 Option 3 ID : 6306801081170
 Option 4 ID : 6306801081171
 Status : Answered
 Chosen Option : 4

Q.24 Vapour Absorption System uses which energy compared to Vapour Compression system?

- Ans
- ☒

1. Neither uses heat or mechanical energy
- ☒

2. heat energy instead of mechanical energy
- ☒

3. Both heat and mechanical energy
- ☒

4. mechanical energy instead of heat energy

Question ID : 630680278159
 Option 1 ID : 6306801080996
 Option 2 ID : 6306801080993
 Option 3 ID : 6306801080995
 Option 4 ID : 6306801080994
 Status : Answered
 Chosen Option : 4

Q.25 You have given a liquid-vapour mixture where a and b are the masses of liquid and vapour respectively. What would be the dryness fraction(d) in the given scenario?

- Ans
- ☒

1. $d = (a + b) / b$
- ☒

2. $d = (a + b) / a$
- ☒

3. $d = a / (a + b)$
- ☒

4. $d = b / (a + b)$

Question ID : 630680278222
 Option 1 ID : 6306801081248
 Option 2 ID : 6306801081246
 Option 3 ID : 6306801081245
 Option 4 ID : 6306801081247
 Status : Answered
 Chosen Option : 4

Q.26 The slope of an isobar on the h-s coordinate in a mollies chart is equal to the _____.

- Ans
- ☒

1. absolute volume
- ☒

2. absolute pressure
- ☒

3. absolute temperature.
- ☒

4. absolute entropy

Question ID : 630680278188
 Option 1 ID : 6306801081111
 Option 2 ID : 6306801081110
 Option 3 ID : 6306801081109
 Option 4 ID : 6306801081112
 Status : Answered
 Chosen Option : 3

Q.27 The heating arrangement for a medium capacity turbine in a regenerative Rankine cycle consist of _____.

- Ans
- ☒

1. not more than 12 heaters
- ☒

2. not more than 7-9 heaters
- ☒

3. not more than 3 heaters
- ☒

4. not more than 5-7 heaters

Question ID : 630680278117
 Option 1 ID : 6306801080828
 Option 2 ID : 6306801080827
 Option 3 ID : 6306801080825
 Option 4 ID : 6306801080826
 Status : Not Answered
 Chosen Option : --

Q.28 Which of the following is a disadvantage of steam injector in boiler?

- Ans

☒

1. Low pumping efficiency
- ☐

2. Presence of dynamic parts
- ☐

3. Low thermal efficiency
- ☐

4. Easy of operation

Question ID : 630680278214
 Option 1 ID : 6306801081215
 Option 2 ID : 6306801081214
 Option 3 ID : 6306801081213
 Option 4 ID : 6306801081216
 Status : Answered
 Chosen Option : 2

Q.29 Which of the following is a boiler mounting?

- Ans

☒

1. Water level indicator
- ☐

2. Air preheater
- ☐

3. Economiser
- ☐

4. Superheater

Question ID : 630680278243
 Option 1 ID : 6306801081329
 Option 2 ID : 6306801081330
 Option 3 ID : 6306801081331
 Option 4 ID : 6306801081332
 Status : Answered
 Chosen Option : 1

Q.30 Which of the following statements is the true purpose of a boiler trial?

- A) Used to determine the generating capacity of the boiler.
- B)To determine the boiler power of the boiler when working at a certain pressure.
- C)To prepare the heat balance sheet for the boiler.

- Ans

☐

1. A,B
- ☐

2. A,B,C
- ☒

3. A,C
- ☐

4. B,C

Question ID : 630680278239
 Option 1 ID : 6306801081313
 Option 2 ID : 6306801081316
 Option 3 ID : 6306801081315
 Option 4 ID : 6306801081314
 Status : Answered
 Chosen Option : 2

Q.31 Which of the following is not an intensive property?

- Ans

☒

1. energy
- ☐

2. Temperature
- ☐

3. velocity
- ☐

4. Pressure

Question ID : 630680278192
 Option 1 ID : 6306801081128
 Option 2 ID : 6306801081126
 Option 3 ID : 6306801081127
 Option 4 ID : 6306801081125
 Status : Answered
 Chosen Option : 1

Q.32 390mm लंबी एक छड़ पर विचार करें। 50 N और 80 N के दो समानांतर बल छड़ के दोनों सिरों पर कार्य करते हैं। परिणामी बल का परिमाण तथा परिणामी तथा छोटे बल के बीच की दूरी ज्ञात करें।

- Ans
- ☒ 1. 130 N और 185 mm
 - ☒ 2. 130 N और 120 mm
 - ☒ 3. 130 N और 240 mm
 - ☒ 4. 30 N और 240 mm

Question ID : 630680278121
 Option 1 ID : 6306801080841
 Option 2 ID : 6306801080842
 Option 3 ID : 6306801080844
 Option 4 ID : 6306801080843
 Status : Answered
 Chosen Option : 3

Q.33 The diverging angle of the venturimeter is less than the converging angle:

- Ans
- ☒ 1. to decrease pressure in the direction of the diverging part
 - ☒ 2. to increase velocity in the direction of the diverging part
 - ☒ 3. to avoid flow separation
 - ☒ 4. To generate flow separation

Question ID : 630680278143
 Option 1 ID : 6306801080931
 Option 2 ID : 6306801080930
 Option 3 ID : 6306801080932
 Option 4 ID : 6306801080929
 Status : Answered
 Chosen Option : 3

Q.34 A gas tungsten arc-welding operation is performed at a current of 400A and voltage of 10V. The melting factor $f_2 = 0.5$, and the unit melting energy for the metal 'Um' = 20 J/mm³. Determine the rate of heat generation at the weld. Heat transfer factor for gas tungsten arc welding is 0.7

- Ans
- ☒ 1. 2100 J/s
 - ☒ 2. 1400 J/s
 - ☒ 3. 700 J/s
 - ☒ 4. 2800 J/s

Question ID : 630680278108
 Option 1 ID : 6306801080791
 Option 2 ID : 6306801080790
 Option 3 ID : 6306801080789
 Option 4 ID : 6306801080792
 Status : Not Answered
 Chosen Option : --

Q.35 Indian standard metric thread has an included angle of ____.

- Ans

☒

1. 50°
- ☒

2. 55°
- ☒

3. 60°
- ☒

4. 40°

Question ID : 630680278183

Option 1 ID : 6306801081090

Option 2 ID : 6306801081091

Option 3 ID : 6306801081092

Option 4 ID : 6306801081089

Status : Answered

Chosen Option : 3

Q.36 In an open system:

- Ans

☒

1. Mass can cross the boundaries of the system but energy cannot.
- ☒

2. Both mass and energy cannot cross the boundaries of the system.
- ☒

3. Mass and energy can cross the boundaries of the system.
- ☒

4. Energy can cross the boundaries of the system but mass cannot.

Question ID : 630680278225

Option 1 ID : 6306801081258

Option 2 ID : 6306801081259

Option 3 ID : 6306801081257

Option 4 ID : 6306801081260

Status : Answered

Chosen Option : 3

Q.37 Viscosity of liquids:

- Ans

☒

1. decreases with the increase in temperature.
- ☒

2. decreases with the decrease in temperature.
- ☒

3. increases with the decrease in temperature.
- ☒

4. increases with the increase in temperature.

Question ID : 630680278124

Option 1 ID : 6306801080853

Option 2 ID : 6306801080855

Option 3 ID : 6306801080856

Option 4 ID : 6306801080854

Status : Answered

Chosen Option : 1

Q.38 On which theory is the diameter of the shaft designed?

- Ans

☒

1. Maximum Shear stress Theory
- ☒

2. Maximum Principle stress theory
- ☒

3. Maximum principle strain theory
- ☒

4. Energy distortion theory

Question ID : 630680278173

Option 1 ID : 6306801081050

Option 2 ID : 6306801081051

Option 3 ID : 6306801081052

Option 4 ID : 6306801081049

Status : Answered

Chosen Option : 1

Q.39 The Reynolds number for a flow in a pipe is given by 1278. What is the Darcy-Weisbach friction factor for the pipe?

- Ans
- ☐ 1. 0.06

☐ 2. 0.03

☐ 3. 0.04

☒ 4. 0.05

Question ID : 630680278144

Option 1 ID : 6306801080936

Option 2 ID : 6306801080933

Option 3 ID : 6306801080934

Option 4 ID : 6306801080935

Status : Answered

Chosen Option : 3

Q.40 Consider the following statements:
A) Reducing the inlet temperature of an SI engine reduces knocking.
B) Increasing the compression ratio of a CI engine reduces knocking.

- Ans
- ☐ 1. Only B is true

☐ 2. Neither A nor B is true

☒ 3. Both A and B is true

☐ 4. Only A is true

Question ID : 630680278234

Option 1 ID : 6306801081294

Option 2 ID : 6306801081296

Option 3 ID : 6306801081295

Option 4 ID : 6306801081293

Status : Answered

Chosen Option : 4

Q.41 The mechanical efficiency of a 4-stroke single cylinder at full load is 60%. If the friction power is 47.5 kW, then calculate the brake power of the engine?

- Ans
- ☐ 1. 70.55 kW

☐ 2. 74.25kW

☐ 3. 73.45kW

☒ 4. 71.25 kW

Question ID : 630680278196

Option 1 ID : 6306801081141

Option 2 ID : 6306801081144

Option 3 ID : 6306801081143

Option 4 ID : 6306801081142

Status : Not Answered

Chosen Option : --

Q.42 Which of the following defines the compression ratio of an internal combustion engine?
Here "Vs" is the stroke volume and "Vc" is the clearance volume.

- Ans
- ☒ 1. $V_s/(V_s+V_c)$
 - ☒ 2. V_s/V_c
 - ☒ 3. $(V_c+V_s)/V_c$
 - ☒ 4. V_c/V_s

Question ID : 630680278201
Option 1 ID : 6306801081161
Option 2 ID : 6306801081162
Option 3 ID : 6306801081163
Option 4 ID : 6306801081164
Status : Answered
Chosen Option : 3

Q.43 The cooling of air without any change in its specific humidity is called as:

- Ans
- ☒ 1. sensible heating
 - ☒ 2. cooling with adiabatic humidification
 - ☒ 3. sensible cooling
 - ☒ 4. Dehumidification

Question ID : 630680278167
Option 1 ID : 6306801081025
Option 2 ID : 6306801081027
Option 3 ID : 6306801081026
Option 4 ID : 6306801081028
Status : Answered
Chosen Option : 3

Q.44 Work input required by a pump in the actual vapour cycle will be _____ than the ideal vapour cycle.

- Ans
- ☒ 1. Greater
 - ☒ 2. equal
 - ☒ 3. 0
 - ☒ 4. lesser

Question ID : 630680278114
Option 1 ID : 6306801080813
Option 2 ID : 6306801080815
Option 3 ID : 6306801080816
Option 4 ID : 6306801080814
Status : Answered
Chosen Option : 1

Q.45 If the speed is kept constant, the variation in manometric head power and efficiency with respect to discharge:

- Ans
- ☒ 1. gives the operating characteristic curves for centrifugal pump.
 - ☒ 2. gives the main characteristic curves for centrifugal pump.
 - ☒ 3. gives the efficiency curves for centrifugal pump.
 - ☒ 4. gives the constant head and constant discharge curves for centrifugal pump.

Question ID : 630680278148
Option 1 ID : 6306801080949
Option 2 ID : 6306801080950
Option 3 ID : 6306801080951
Option 4 ID : 6306801080952
Status : Answered
Chosen Option : 2

Q.46 Which of the following is a 50% reaction turbine?

- Ans
-  1. Turgo Turbine

 2. Francis turbine

 3. Parson Turbine

 4. Da-Laval Turbine

Question ID : 630680278130
 Option 1 ID : 6306801080880
 Option 2 ID : 6306801080879
 Option 3 ID : 6306801080878
 Option 4 ID : 6306801080877
 Status : Answered
 Chosen Option : 3

Q.47 Which of the following is a graphitizing element?

- Ans
-  1. Copper

 2. Silver

 3. Sodium

 4. Magnesium

Question ID : 630680278106
 Option 1 ID : 6306801080783
 Option 2 ID : 6306801080784
 Option 3 ID : 6306801080782
 Option 4 ID : 6306801080781
 Status : Answered
 Chosen Option : 4

Q.48 Consider the following statements:

- A) Most of the friction occurs in the converging part of a convergent-divergent nozzle.
 B)The effect of friction in a Nozzle is to reduce the available enthalpy drop by about 10 to 15%.
 C)The critical pressure ratio is the pressure ratio which will accelerate the flow to a velocity equal to the local velocity of sound in the fluid.

- Ans
-  1. A and C is true

 2. B and C is true

 3. A and B is true

 4. All statements are true

Question ID : 630680278211
 Option 1 ID : 6306801081203
 Option 2 ID : 6306801081202
 Option 3 ID : 6306801081201
 Option 4 ID : 6306801081204
 Status : Answered
 Chosen Option : 2

Q.49 Which of the following welding processes use a non consumable electrode?

- Ans

☒

1. Carbon arc welding
- ☐

2. Shielded Metal Arc welding
- ☐

3. Gas Metal Arc welding
- ☐

4. Flux-cored arc welding

Question ID : 630680278111

Option 1 ID : 6306801080804

Option 2 ID : 6306801080801

Option 3 ID : 6306801080802

Option 4 ID : 6306801080803

Status : Answered

Chosen Option : 3

Q.50 Which of the following advantages of multi-stage compressions over single stage compression is/are true?
A) The work done per kg of refrigerant is reduced in multistage compression with intercooler as compared to single stage compression for the same delivery pressure.
B) Multi stage compression improves volumetric efficiency for the given pressure ratio compared to single stage compression.

- Ans

☐

1. Only B is true
- ☐

2. Only A is true
- ☒

3. Both A and B is true
- ☐

4. Neither A nor B is true

Question ID : 630680278170

Option 1 ID : 6306801081038

Option 2 ID : 6306801081037

Option 3 ID : 6306801081039

Option 4 ID : 6306801081040

Status : Answered

Chosen Option : 3

Q.51 Work done by an ideal nozzle is:

- Ans

☒

1. 0
- ☐

2. high
- ☐

3. cannot be determined
- ☐

4. maybe high or low

Question ID : 630680278213

Option 1 ID : 6306801081211

Option 2 ID : 6306801081209

Option 3 ID : 6306801081210

Option 4 ID : 6306801081212

Status : Answered

Chosen Option : 1

Q.52 What is the velocity ratio of the belt drive with the diameter of the follower is 400mm and the diameter of the driver is 150mm and the thickness of the belt being 50mm?

- Ans
- ☒ 1. 3
 - ☒ 2. 0.4
 - ☒ 3. 2.6
 - ☒ 4. 2.25

Question ID : 630680278181
 Option 1 ID : 6306801081084
 Option 2 ID : 6306801081081
 Option 3 ID : 6306801081083
 Option 4 ID : 6306801081082
 Status : Answered
 Chosen Option : 2

Q.53 Consider the following statements:

- A) Cold shots results from splattering during pouring, causing the formation of solid globules of metal that become entrapped in the casting.
 B) Scabs is a defect consisting of a balloon-shaped gas cavity caused by release of mold gases during pouring.

- Ans
- ☒ 1. Only B is true
 - ☒ 2. Neither A nor B is true
 - ☒ 3. Only A is true
 - ☒ 4. Both A and B are true

Question ID : 630680278113
 Option 1 ID : 6306801080810
 Option 2 ID : 6306801080812
 Option 3 ID : 6306801080809
 Option 4 ID : 6306801080811
 Status : Answered
 Chosen Option : 4

Q.54 Moment of inertia of a solid sphere of radius R with the axis of rotation along its diameter is

- Ans
- ☒ 1. $(MR^2)/2$
 - ☒ 2. $2/5 (MR^2)$
 - ☒ 3. $2/3(MR^2)$
 - ☒ 4. MR^2

Question ID : 630680278172
 Option 1 ID : 6306801081045
 Option 2 ID : 6306801081047
 Option 3 ID : 6306801081048
 Option 4 ID : 6306801081046
 Status : Answered
 Chosen Option : 2

Q.55 A flywheel has a mass of 289 kg rotating at 6 rad/s. What would be its rotational kinetic energy if the radius of gyration is 1/17 m?

- Ans ☒ 1. 15 J
☒ 2. 18 J
☒ 3. 24 J
☒ 4. 9 J

Question ID : 630680278185
 Option 1 ID : 6306801081098
 Option 2 ID : 6306801081099
 Option 3 ID : 6306801081100
 Option 4 ID : 6306801081097
 Status : Answered
 Chosen Option : 2

Q.56 A Carnot engine absorbs 1000 J of heat from a reservoir at 327 C and rejects 700 J of heat during each cycle. Calculate the temperature of the sink.

- Ans ☒ 1. 147°C
☒ 2. 600°C
☒ 3. 180°C
☒ 4. 420°C

Question ID : 630680278191
 Option 1 ID : 6306801081121
 Option 2 ID : 6306801081124
 Option 3 ID : 6306801081122
 Option 4 ID : 6306801081123
 Status : Answered
 Chosen Option : 1

Q.57 To find the velocity at any point in a pipe by a pitot tube the following arrangement is used:
 A) Pitot tube along with a vertical piezometer tube.
 B) Pitot-tube and vertical piezometer connected with a differential U-tube manometer.

- Ans ☒ 1. Only A is true
☒ 2. Both A and B is true
☒ 3. Neither A nor B is true
☒ 4. Only B is true

Question ID : 630680278157
 Option 1 ID : 6306801080985
 Option 2 ID : 6306801080987
 Option 3 ID : 6306801080988
 Option 4 ID : 6306801080986
 Status : Answered
 Chosen Option : 2

Q.58 Consider the following statements:
A) System possess energy but not heat and work.
B) Heat and work have no meaning at a state.

- Ans ☒ 1. Only B is true
☒ 2. Neither A nor B is true
☒ 3. Both A and B is true
☒ 4. Only A is true

Question ID : 630680278224
Option 1 ID : 6306801081254
Option 2 ID : 6306801081256
Option 3 ID : 6306801081255
Option 4 ID : 6306801081253
Status : Answered
Chosen Option : 3

Q.59 Which of the following is a method of steam turbine governing?
A) By-pass governing

- B) Throttle Governing
C) steam governing
D) Nozzle Governing

- Ans ☒ 1. B,C,D
☒ 2. A,B,C, D
☒ 3. A,B,C
☒ 4. A,B,D

Question ID : 630680278218
Option 1 ID : 6306801081231
Option 2 ID : 6306801081232
Option 3 ID : 6306801081229
Option 4 ID : 6306801081230
Status : Answered
Chosen Option : 4

Q.60 The main characteristic curves of a centrifugal pump is obtained by keeping the pump at _____.

- Ans ☒ 1. constant speed and varying the temperature of over desired range.
☒ 2. constant speed and varying the pressure over desired range.
☒ 3. constant discharge and varying the speed over desired range.
☒ 4. constant speed and varying the discharge over desired range.

Question ID : 630680278134
Option 1 ID : 6306801080895
Option 2 ID : 6306801080896
Option 3 ID : 6306801080894
Option 4 ID : 6306801080893
Status : Answered
Chosen Option : 4

Q.61 If high head is to be developed in a centrifugal pump then the impeller is to:

- Ans

✔

1. can be connected in series or on same shaft

✖

2. connected in parallel

✖

3. can be connected in series as well as parallel

✖

4. high head cannot be developed
- Question ID : 630680278137

Option 1 ID : 6306801080908

Option 2 ID : 6306801080907

Option 3 ID : 6306801080906

Option 4 ID : 6306801080905

Status : Answered

Chosen Option : 1
- Q.62 Which of the following compressors is classified on the basis of method of compression?
- Ans

✖

1. Single stage compressor

✖

2. Hermetic compressor

✖

3. Single acting compressor

✔

4. Centrifugal compressor

Question ID : 630680278161

Option 1 ID : 6306801081003

Option 2 ID : 6306801081004

Option 3 ID : 6306801081002

Option 4 ID : 6306801081001

Status : Answered

Chosen Option : 1

Q.63 Which of the following is an axial turbine?

Ans

✖

1. Pelton wheel

✖

2. Parsons turbine

✖

3. Francis Turbine

✔

4. Kaplan turbine

Question ID : 630680278217

Option 1 ID : 6306801081225

Option 2 ID : 6306801081227

Option 3 ID : 6306801081228

Option 4 ID : 6306801081226

Status : Answered

Chosen Option : 4

Q.64 The acceleration and retardation of the follower at the beginning and at the end of each stroke when the follower moves with uniform velocity is _____.

Ans

✖

1. 0

✖

2. 0.5

✖

3. negative

✔

4. infinity

Question ID : 630680278180

Option 1 ID : 6306801081078

Option 2 ID : 6306801081079

Option 3 ID : 6306801081077

Option 4 ID : 6306801081080

Status : Answered

Chosen Option : 1

Q.65 Which of the following is an example of Pressure compounded impulse turbine?

- Ans

☒

1. Propeller Turbine
- ☒

2. Zoelly Turbine
- ☒

3. Parson turbine
- ☒

4. Hero's Turbine

Question ID : 630680278219

Option 1 ID : 6306801081236

Option 2 ID : 6306801081235

Option 3 ID : 6306801081233

Option 4 ID : 6306801081234

Status : Answered

Chosen Option : 4

Q.66 The condensing process in a theoretical vapour compression cycle with dry saturated vapour after compression takes place at:

- Ans

☒

1. only at constant pressure
- ☒

2. constant temperature and pressure
- ☒

3. only at constant entropy
- ☒

4. only at constant temperature

Question ID : 630680278160

Option 1 ID : 6306801080997

Option 2 ID : 6306801081000

Option 3 ID : 6306801080999

Option 4 ID : 6306801080998

Status : Answered

Chosen Option : 1

Q.67 Which of the following statements is/are true?

- A) For a vertical plane submerged surface the centre of pressure lies above the centre of gravity.
- B) For a vertical plane submerged surface the distance of centre of pressure from the free surface of the liquid is dependent of the density of the liquid.

- Ans

☒

1. Both A and B is true
- ☒

2. Both A and B are not True
- ☒

3. Only A is true
- ☒

4. Only B is true

Question ID : 630680278127

Option 1 ID : 6306801080867

Option 2 ID : 6306801080868

Option 3 ID : 6306801080865

Option 4 ID : 6306801080866

Status : Answered

Chosen Option : 2

Q.68 निम्नलिखित में से कौन सा परीक्षण IC इंजन में तुलनात्मक रूप से करना आसान है?

- Ans ☒ 1. विलियन्स लाइन परीक्षण
- ☒ 2. ip-bp विधि
- ☒ 3. मंदन परीक्षण
- ☒ 4. मोटरिंग परीक्षण

Question ID : 630680278232
Option 1 ID : 6306801081285
Option 2 ID : 6306801081287
Option 3 ID : 6306801081288
Option 4 ID : 6306801081286
Status : Answered
Chosen Option : 2

Q.69 Consider the following statements:

- A) In an induced boiler draught, pressure inside the flue passages is slightly less than atmospheric pressure.
2) Boiler Draught refers to the pressure difference created for the flow of gases inside the boiler.

- Ans ☒ 1. Neither A nor B is true
- ☒ 2. Only A is true
- ☒ 3. Both A and B is true
- ☒ 4. Only B is true

Question ID : 630680278241
Option 1 ID : 6306801081324
Option 2 ID : 6306801081321
Option 3 ID : 6306801081323
Option 4 ID : 6306801081322
Status : Answered
Chosen Option : 3

Q.70 Which of the following turbine does not have a nozzle?

- Ans ☒ 1. Francis turbine
- ☒ 2. Reaction Turbine
- ☒ 3. Da-Laval turbine
- ☒ 4. Impulse turbine

Question ID : 630680278216
Option 1 ID : 6306801081223
Option 2 ID : 6306801081221
Option 3 ID : 6306801081224
Option 4 ID : 6306801081222
Status : Answered
Chosen Option : 3

Q.71 Which of the following equations is used to calculate absolute pressure?

- Ans
- ☒

1. absolute pressure = gauge pressure- atmospheric pressure
- ☒

2. absolute pressure = atmospheric pressure + gauge pressure
- ☒

3. absolute pressure = atmospheric pressure - gauge pressure
- ☒

4. absolute pressure = gauge pressure- vacuum pressure

Question ID : 630680278126

Option 1 ID : 6306801080863

Option 2 ID : 6306801080862

Option 3 ID : 6306801080861

Option 4 ID : 6306801080864

Status : Answered

Chosen Option : 2

Q.72 The major losses in a pipe is calculated by using which of the following equations?

- Ans
- ☒

1. Euler's Equation
- ☒

2. Navier Stokes Equation
- ☒

3. Bernoulli's Equation
- ☒

4. Darcy Weisbach Equation

Question ID : 630680278129

Option 1 ID : 6306801080876

Option 2 ID : 6306801080873

Option 3 ID : 6306801080874

Option 4 ID : 6306801080875

Status : Answered

Chosen Option : 4

Q.73 Grain size obtained in normalizing are ____.

- Ans
- ☒

1. smaller than that obtained in annealing.
- ☒

2. bigger than that obtained in annealing.
- ☒

3. equal to the ones obtained in annealing.
- ☒

4. can be big or small than that obtained in annealing.

Question ID : 630680278107

Option 1 ID : 6306801080785

Option 2 ID : 6306801080786

Option 3 ID : 6306801080787

Option 4 ID : 6306801080788

Status : Answered

Chosen Option : 2

Q.74 Consider a body of weight 'A' resting on a horizontal plane. What will be the least force that will move the body if the angle of friction is "x"?

- Ans
- ☒

1. Atanx
- ☒

2. Acotx
- ☒

3. Acosx
- ☒

4. Asinx

Question ID : 630680278120

Option 1 ID : 6306801080839

Option 2 ID : 6306801080840

Option 3 ID : 6306801080838

Option 4 ID : 6306801080837

Status : Answered

Chosen Option : 4

Q.75 The masses of vapour and liquid is are 6 kg and 9 kg respectively. Find the dryness fraction of the liquid vapour mixture.

- Ans ☒ 1. 0.4
☒ 2. 0.667
☒ 3. 0.6
☒ 4. 0.8

Question ID : 630680278187
 Option 1 ID : 6306801081105
 Option 2 ID : 6306801081107
 Option 3 ID : 6306801081106
 Option 4 ID : 6306801081108
 Status : Answered
 Chosen Option : 1

Q.76 Resistance spot welding is used for sheets of thickness ____.

- Ans ☒ 1. 5 mm or more
☒ 2. 3 mm or less
☒ 3. 6 mm to 10 mm
☒ 4. 10 mm or less

Question ID : 630680278110
 Option 1 ID : 6306801080798
 Option 2 ID : 6306801080800
 Option 3 ID : 6306801080797
 Option 4 ID : 6306801080799
 Status : Answered
 Chosen Option : 2

Q.77 The hoop stress of a thin cylindrical shell is 45.76 N/mm^2 . Find the longitudinal stress of the same cylinder?

- Ans ☒ 1. 91.52 N/mm^2
☒ 2. 45.76 N/mm^2
☒ 3. 22.88 N/mm^2
☒ 4. 11.4 N/mm^2

Question ID : 630680278174
 Option 1 ID : 6306801081056
 Option 2 ID : 6306801081055
 Option 3 ID : 6306801081054
 Option 4 ID : 6306801081053
 Status : Answered
 Chosen Option : 3

Q.78 The inward force acting on the rotating balls of a governor running at steady speed is known as ____.

- Ans ☒ 1. Shear force
☒ 2. Tension
☒ 3. Controlling force
☒ 4. Frictional force

Question ID : 630680278179
 Option 1 ID : 6306801081076
 Option 2 ID : 6306801081075
 Option 3 ID : 6306801081073
 Option 4 ID : 6306801081074
 Status : Answered
 Chosen Option : 3

Q.79 Consider the following statements:

A) Draft Tube permits a negative head to be established at the outlet of the runner and thereby increasing the net head on the turbine.

B) Francis turbine is an inward flow reaction turbine.

- Ans
- ☒ 1. Only B is true
 - ☒ 2. Neither A or B is true
 - ☒ 3. Both A and B is true
 - ☒ 4. Only A is true

Question ID : 630680278146
Option 1 ID : 6306801080942
Option 2 ID : 6306801080944
Option 3 ID : 6306801080943
Option 4 ID : 6306801080941

Status : Answered

Chosen Option : 3

Q.80 A device which increases the velocity at the expense of pressure is:

- Ans
- ☒ 1. Diffusers
 - ☒ 2. Turbine
 - ☒ 3. Pump
 - ☒ 4. Nozzles

Question ID : 630680278212
Option 1 ID : 6306801081205
Option 2 ID : 6306801081206
Option 3 ID : 6306801081207
Option 4 ID : 6306801081208

Status : Answered

Chosen Option : 4

Q.81 Which of the following will improve thermal efficiency of the Rankine cycle?

A) By regenerative feed heating.

B) By reheating of steam.

C) Increasing condenser pressure.

D) Superheating the steam.

- Ans
- ☒ 1. A,B,D
 - ☒ 2. B,C,D
 - ☒ 3. A,B,C
 - ☒ 4. A,B,C, D

Question ID : 630680278116
Option 1 ID : 6306801080822
Option 2 ID : 6306801080823
Option 3 ID : 6306801080821
Option 4 ID : 6306801080824

Status : Answered

Chosen Option : 4

Q.82 Consider the following statements:

A) Reaction turbines are suitable in cases where water flow rates are higher.

B) The reaction turbine have relatively large size compared to impulse turbine for the same power output.

C) In the reaction turbine, the pressure of water continuously decreases when it flows over the blades.

Ans ☒ 1. B and C is true

☒ 2. All statements are true

☒ 3. A and B is true

☒ 4. A and C is true

Question ID : 630680278220

Option 1 ID : 6306801081238

Option 2 ID : 6306801081240

Option 3 ID : 6306801081237

Option 4 ID : 6306801081239

Status : Answered

Chosen Option : 2

Q.83 A steel rod of 20 mm diameter and 3.14m long is subjected to an axial pull of 2000N. Determine the elongation of the rod if the elastic modulus is 2×10^5 N/mm².

Ans ☒ 1. 0.01mm

☒ 2. 1mm

☒ 3. 10mm

☒ 4. 0.1mm

Question ID : 630680278175

Option 1 ID : 6306801081059

Option 2 ID : 6306801081057

Option 3 ID : 6306801081060

Option 4 ID : 6306801081058

Status : Answered

Chosen Option : 4

Q.84 What is the relation between the specific speed and the head under which the turbine is working? (Here N is the specific speed and H is the head)

Ans ☒ 1. $N \propto 1/H^{(3/2)}$

☒ 2. $N \propto 1/H^{(5/4)}$

☒ 3. $N \propto 1/H^{(5/3)}$

☒ 4. $N \propto H^{(5/2)}$

Question ID : 630680278131

Option 1 ID : 6306801080884

Option 2 ID : 6306801080883

Option 3 ID : 6306801080882

Option 4 ID : 6306801080881

Status : Answered

Chosen Option : 2

Q.85 The point at which saturated vapour and saturated liquid coincide with each other is called as_____.

- Ans
- ☒ 1. melting point
 - ☒ 2. Critical point
 - ☒ 3. boiling point
 - ☒ 4. triple point

Question ID : 630680278186
Option 1 ID : 6306801081104
Option 2 ID : 6306801081102
Option 3 ID : 6306801081103
Option 4 ID : 6306801081101
Status : Answered
Chosen Option : 2

Q.86 Which of the following is NOT a fusion welding process?

- Ans
- ☒ 1. Thermit welding
 - ☒ 2. Oxyacetylene welding
 - ☒ 3. Electron-Beam Welding
 - ☒ 4. Ultrasonic welding

Question ID : 630680278109
Option 1 ID : 6306801080793
Option 2 ID : 6306801080795
Option 3 ID : 6306801080794
Option 4 ID : 6306801080796
Status : Answered
Chosen Option : 4

Q.87 In velocity analysis of a Kaplan turbine the relation between the velocity of flow in the inlet (V_1) with the velocity of flow in the outlet (V_2) is _____.

- Ans
- ☒ 1. $V_1 = V_2$
 - ☒ 2. $V_1 = (V_2)/2$
 - ☒ 3. $V_1 = V_2/4$
 - ☒ 4. $V_1 = 2(V_2)$

Question ID : 630680278145
Option 1 ID : 6306801080938
Option 2 ID : 6306801080939
Option 3 ID : 6306801080940
Option 4 ID : 6306801080937
Status : Answered
Chosen Option : 4

Q.88 Friction power can be measured with high accuracy using which of the following methods?

- Ans
- ☒ 1. measurement of brake and indicated power
 - ☒ 2. Morse test
 - ☒ 3. motoring test
 - ☒ 4. Willian's Line

Question ID : 630680278197
Option 1 ID : 6306801081148
Option 2 ID : 6306801081147
Option 3 ID : 6306801081146
Option 4 ID : 6306801081145
Status : Answered
Chosen Option : 2

Q.89 Consider the following statements:
 A) Between the same temperature limits Rankine cycle provides a higher specific work output than a Carnot cycle.
 B) The efficiency of the Rankine cycle will approach that of the Carnot cycle more nearly if the superheat temperature rise is increased.

- Ans
- ☒ 1. Both A and B are true
 - ☒ 2. Only B is true
 - ☒ 3. Neither A nor B is true
 - ☒ 4. Only A is true

Question ID : 630680278118
 Option 1 ID : 6306801080831
 Option 2 ID : 6306801080830
 Option 3 ID : 6306801080832
 Option 4 ID : 6306801080829
 Status : Answered
 Chosen Option : 2

Q.90 Which of the following forces in Lami's Theorem is applicable to keep an object in static equilibrium?

- Ans
- ☒ 1. Two coplanar, non - collinear and concurrent forces
 - ☒ 2. Two coplanar and concurrent forces only
 - ☒ 3. Three coplanar and concurrent forces
 - ☒ 4. Three coplanar, non - collinear and concurrent forces

Question ID : 630680278122
 Option 1 ID : 6306801080845
 Option 2 ID : 6306801080846
 Option 3 ID : 6306801080847
 Option 4 ID : 6306801080848
 Status : Answered
 Chosen Option : 3

Q.91 The efficiency of a supercritical boiler is _____.

- Ans
- ☒ 1. lower than subcritical boiler
 - ☒ 2. can be higher or lower than subcritical boiler
 - ☒ 3. higher than subcritical boiler
 - ☒ 4. equal to subcritical boiler

Question ID : 630680278240
 Option 1 ID : 6306801081317
 Option 2 ID : 6306801081320
 Option 3 ID : 6306801081318
 Option 4 ID : 6306801081319
 Status : Answered
 Chosen Option : 3

Q.92 Consider the following statements:

- A) The locus of points on the h-s diagram for the isentropic expansion of steam in nozzle where condensation will take place regardless of the initial temperature and pressure at the nozzle entrance is called the Wilson line.
B) The condensation of steam is delayed in a nozzle owing to the high velocities is called as supersaturation.

- Ans ☒ 1. Neither A nor B is true
☒ 2. Both A and B is true
☒ 3. Only B is true
☒ 4. Only A is true

Question ID : 630680278215
Option 1 ID : 6306801081220
Option 2 ID : 6306801081219
Option 3 ID : 6306801081218
Option 4 ID : 6306801081217
Status : Not Answered
Chosen Option : --

Q.93 A pitot tube works on the principle if velocity of flow at a point becomes zero then the pressure is _____.

- Ans ☒ 1. decreased due to conversion of kinetic energy into pressure energy.
☒ 2. increased due to conversion of kinetic energy into pressure energy.
☒ 3. pressure is the same.
☒ 4. decreased due to conversion of kinetic energy into heat energy.

Question ID : 630680278128
Option 1 ID : 6306801080871
Option 2 ID : 6306801080869
Option 3 ID : 6306801080872
Option 4 ID : 6306801080870
Status : Answered
Chosen Option : 2

Q.94 Consider the following statements:

- A) With Air cooling system, the design of engine becomes simpler compared to water cooling system.
B) Air cooled system have lower working temperatures compared to water cooled systems.

- Ans ☒ 1. Neither A nor B is true
☒ 2. Only A is true
☒ 3. Only B is true
☒ 4. Both A and B is true

Question ID : 630680278202
Option 1 ID : 6306801081168
Option 2 ID : 6306801081165
Option 3 ID : 6306801081166
Option 4 ID : 6306801081167
Status : Answered
Chosen Option : 4

Q.95 Which of the following is an advantage of rolling contact bearings over sliding contact bearing?

- Ans

☒

1. less noisy
- ☒

2. low starting friction
- ☒

3. simple housing design
- ☒

4. less initial cost

Question ID : 630680278182
 Option 1 ID : 6306801081086
 Option 2 ID : 6306801081085
 Option 3 ID : 6306801081088
 Option 4 ID : 6306801081087
 Status : Answered
 Chosen Option : 2

Q.96 At the critical point the latent heat of vaporization is _____.

- Ans

☒

1. 0
- ☒

2. equal to pressure at 4.5 mm hg
- ☒

3. negative
- ☒

4. maximum

Question ID : 630680278221
 Option 1 ID : 6306801081241
 Option 2 ID : 6306801081243
 Option 3 ID : 6306801081242
 Option 4 ID : 6306801081244
 Status : Answered
 Chosen Option : 1

Q.97 In a centrifugal pump the vortex casing helps in conversion of _____.

- Ans

☒

1. kinetic energy into the potential energy.
- ☒

2. kinetic energy into the mechanical energy.
- ☒

3. kinetic energy into the pressure energy.
- ☒

4. pressure energy into the kinetic energy.

Question ID : 630680278149
 Option 1 ID : 6306801080955
 Option 2 ID : 6306801080953
 Option 3 ID : 6306801080956
 Option 4 ID : 6306801080954
 Status : Answered
 Chosen Option : 3

Q.98 What is the standard feed temperature and working pressure adopted to compare two boilers ?

- Ans

☒

1. 0°C and 1.033 kg/cm²
- ☒

2. 100°C and 1.033 kg/cm²
- ☒

3. 200°C and 1.033 kg/cm²
- ☒

4. 100°C and 0.1 kg/cm²

Question ID : 630680278204
 Option 1 ID : 6306801081173
 Option 2 ID : 6306801081174
 Option 3 ID : 6306801081176
 Option 4 ID : 6306801081175
 Status : Answered
 Chosen Option : 2

Q.99 Which of the following statement/s is/are true?
A) In vapour absorption system the only moving part of the entire system is a pump which has a small motor.
B) The load variations do not affect the performance of the vapour absorption system.

- Ans ☒ 1. Both A and B is true
☒ 2. Only B is true
☒ 3. Only A is true
☒ 4. Neither A nor B is true

Question ID : 630680278168
Option 1 ID : 6306801081031
Option 2 ID : 6306801081030
Option 3 ID : 6306801081029
Option 4 ID : 6306801081032

Status : Answered

Chosen Option : 1

Q.100 For which of the following system internal energy is used exclusively for doing work as per the first law of thermodynamics?

- Ans ☒ 1. Isothermal System
☒ 2. Isochoric System
☒ 3. Isolated system
☒ 4. Adiabatic system

Question ID : 630680278227
Option 1 ID : 6306801081266
Option 2 ID : 6306801081265
Option 3 ID : 6306801081268
Option 4 ID : 6306801081267

Status : Answered

Chosen Option : 4

Q.101 The ratio of pressure energy change inside a runner of a reaction turbine to the total energy change inside a runner is called as _____.

- Ans ☒ 1. Degree of reaction
☒ 2. Flow ratio
☒ 3. turbine efficiency
☒ 4. Discharge of the turbine

Question ID : 630680278147
Option 1 ID : 6306801080948
Option 2 ID : 6306801080945
Option 3 ID : 6306801080947
Option 4 ID : 6306801080946

Status : Answered

Chosen Option : 1

Q.102 Which of the following is a dynamic pressure pump?

- Ans
- ☐ 1. Piston Pump
 - ☐ 2. Gear Pump
 - ☒ 3. Centrifugal Pump
 - ☐ 4. Vane Pump

Question ID : 630680278136
Option 1 ID : 6306801080901
Option 2 ID : 6306801080902
Option 3 ID : 6306801080904
Option 4 ID : 6306801080903
Status : Answered
Chosen Option : 4

Q.103 The right limb of a simple U-Tube manometer containing mercury is open to the atmosphere while the left limb is connected to a pipe in which a liquid of specific gravity 0.5 is flowing. The centre of the pipe is 10 cm below the level of mercury in the right limb. Find the pressure of fluid in the pipe if the difference of mercury level in the two limbs is 20 cm.

- Ans
- ☐ 1. 2.3 N/cm²
 - ☐ 2. 3.5 N/cm²
 - ☒ 3. 2.6 N/cm²
 - ☐ 4. 3.8 N/cm²

Question ID : 630680278140
Option 1 ID : 6306801080917
Option 2 ID : 6306801080919
Option 3 ID : 6306801080918
Option 4 ID : 6306801080920
Status : Not Answered
Chosen Option : --

Q.104 The indicated power in KW is given by (where Pim is indicated mean effective pressure , n is the number of power strokes per min, k is the number of cylinders, L is the length of stroke, A is the area of the piston, Vs is the volume)

- Ans
- ☒ 1. (PimALnk)/60000
 - ☐ 2. (PimAnk)/60000
 - ☐ 3. (PimVsn)/60000
 - ☐ 4. (PimVskL)/60000

Question ID : 630680278233
Option 1 ID : 6306801081292
Option 2 ID : 6306801081290
Option 3 ID : 6306801081289
Option 4 ID : 6306801081291
Status : Answered
Chosen Option : 1

Q.105 Consider the following statements:

A) Heat and work can be stored in the system.

B) Heat transfer is the energy interaction due to temperature difference only and all other energy interaction may be termed as work transfer.

- Ans
- ☒ 1. Only A is true
 - ☒ 2. Only B is true
 - ☒ 3. Both A and B are true
 - ☒ 4. Neither A or B is true

Question ID : 630680278189
Option 1 ID : 6306801081113
Option 2 ID : 6306801081114
Option 3 ID : 6306801081115
Option 4 ID : 6306801081116

Status : Answered

Chosen Option : 2

Q.106 A hydraulic press has a ram of 20 cm diameter and a plunger of 4 cm dia. Find the weight lifted by the hydraulic press when a force of 10 N is applied.

- Ans
- ☒ 1. 0.4N
 - ☒ 2. 50N
 - ☒ 3. 100N
 - ☒ 4. 250N

Question ID : 630680278125
Option 1 ID : 6306801080859
Option 2 ID : 6306801080857
Option 3 ID : 6306801080858
Option 4 ID : 6306801080860

Status : Answered

Chosen Option : 4

Q.107 Which of the following processes are involved in Rankine cycle?

- Ans
- ☒ 1. Two reversible adiabatic process, constant pressure process., one constant volume process.
 - ☒ 2. Two reversible adiabatic process and two constant pressure process.
 - ☒ 3. Two isothermal process and two constant pressure process.
 - ☒ 4. Two reversible adiabatic process and two constant volume process.

Question ID : 630680278115
Option 1 ID : 6306801080820
Option 2 ID : 6306801080818
Option 3 ID : 6306801080819
Option 4 ID : 6306801080817

Status : Answered

Chosen Option : 2

Q.108 The forced circulation cooling system in an IC engine normally uses _____.

- Ans



1. gear pump



2. vane pump



3. centrifugal pump



4. piston pump

Question ID : 630680278237
 Option 1 ID : 6306801081307
 Option 2 ID : 6306801081308
 Option 3 ID : 6306801081305
 Option 4 ID : 6306801081306
 Status : Answered
 Chosen Option : 4

Q.109 Consider the following statements:
 A) The point on the beam where the bending moment changes its sign is known as the point of contraflexure.
 B) If shear force is zero at a particular section bending moment will be at its peak in that particular section.

- Ans



1. Neither A or B are true



2. Both A and B are true



3. Only B is true



4. Only A is true

Question ID : 630680278176
 Option 1 ID : 6306801081064
 Option 2 ID : 6306801081063
 Option 3 ID : 6306801081062
 Option 4 ID : 6306801081061
 Status : Answered
 Chosen Option : 2

Q.110 An IC engine has a brake power of 720 kW, with a fuel whose calorific value is 32 MJ/kg. The engine is expected to consume about 60 g/s. Calculate the brake thermal efficiency of the engine.

- Ans



1. 0.32



2. 0.25



3. 0.375



4. 0.395

Question ID : 630680278198
 Option 1 ID : 6306801081150
 Option 2 ID : 6306801081149
 Option 3 ID : 6306801081151
 Option 4 ID : 6306801081152
 Status : Answered
 Chosen Option : 3

Q.111 In the expression of capillary rise, the angle of contact between water and clean glass tube is approximately equal to ____.

- Ans
- ☒ 1. 130°
 - ☒ 2. 90°
 - ☒ 3. 45°
 - ☒ 4. 0°

Question ID : 630680278152
Option 1 ID : 6306801080968
Option 2 ID : 6306801080967
Option 3 ID : 6306801080966
Option 4 ID : 6306801080965

Status : Answered

Chosen Option : 4

Q.112 Which of the following is increased due to friction in Nozzle?

- A) Entropy
- B) Available energy
- C) Throat area
- D) Velocity of flow

- Ans
- ☒ 1. A,C
 - ☒ 2. B,C
 - ☒ 3. B,D
 - ☒ 4. A,B

Question ID : 630680278245
Option 1 ID : 6306801081338
Option 2 ID : 6306801081339
Option 3 ID : 6306801081340
Option 4 ID : 6306801081337

Status : Answered

Chosen Option : 3

Q.113 Find the COP of the refrigeration system if the work input is 40kJ/kg and the refrigeration effect produced is 160KJ/kg of refrigerant flowing?

- Ans
- ☒ 1. 4
 - ☒ 2. 3
 - ☒ 3. 0.5
 - ☒ 4. 2

Question ID : 630680278166
Option 1 ID : 6306801081024
Option 2 ID : 6306801081023
Option 3 ID : 6306801081022
Option 4 ID : 6306801081021

Status : Answered

Chosen Option : 1

Q.114 Consider the following statements:

- A) For a given compression ratio the Otto cycle is more efficient than diesel cycle.
B) For an Otto cycle an increase in the compression ratio leads to an increase in the mean effective pressure but decrease in thermal efficiency.

- Ans ☒ 1. Only A is true
☒ 2. Neither A nor B is true
☒ 3. Both A and B is true
☒ 4. Only B is true

Question ID : 630680278228
Option 1 ID : 6306801081269
Option 2 ID : 6306801081272
Option 3 ID : 6306801081271
Option 4 ID : 6306801081270

Status : Answered

Chosen Option : 3

Q.115 Super heating vapour after compression in a vapour compression cycle will:

- Ans ☒ 1. have no effect.
☒ 2. decrease the refrigerating effect
☒ 3. increase the work done
☒ 4. increase the coefficient of performance

Question ID : 630680278169
Option 1 ID : 6306801081036
Option 2 ID : 6306801081034
Option 3 ID : 6306801081033
Option 4 ID : 6306801081035

Status : Answered

Chosen Option : 4

Q.116 In case of mist lubricating system, the lubricating oil is mixed with the fuel the usual ratio being_____.

- Ans ☒ 1. 5% to 9%
☒ 2. 3% to 6%
☒ 3. 1% to 3%
☒ 4. 7% to 9%

Question ID : 630680278238
Option 1 ID : 6306801081311
Option 2 ID : 6306801081310
Option 3 ID : 6306801081309
Option 4 ID : 6306801081312

Status : Not Answered

Chosen Option : --

Q.117 Consider the following statements:

- A) Carbon Loss results from the presence of unburned combustible materials.
- B) The sensible loss is typically the largest singleboiler loss component.

- Ans
- ☒ 1. Neither A or B is true
 - ☒ 2. Only A is true
 - ☒ 3. Only B is true
 - ☒ 4. Both A and B is true

Question ID : 630680278205
 Option 1 ID : 6306801081180
 Option 2 ID : 6306801081177
 Option 3 ID : 6306801081178
 Option 4 ID : 6306801081179
 Status : Not Answered
 Chosen Option : --

Q.118 In vapour compression cycle, what will be the change in the refrigeration effect when the vapour is first superheated after compression and undercooled before throttling?

- Ans
- ☒ 1. Refrigeration effect may increase or decrease
 - ☒ 2. Refrigeration effect decreases
 - ☒ 3. Refrigeration effect increases
 - ☒ 4. No change

Question ID : 630680278163
 Option 1 ID : 6306801081011
 Option 2 ID : 6306801081009
 Option 3 ID : 6306801081010
 Option 4 ID : 6306801081012
 Status : Answered
 Chosen Option : 3

Q.119 The draught in which pressure difference is created between the base of chimney and the air inlet point of boiler because of density difference between hot flue gases inside the chimney and fresh colder air outside the chimney is a _____.

- Ans
- ☒ 1. Natural Draught
 - ☒ 2. Forced Draught
 - ☒ 3. Mechanical Draught
 - ☒ 4. Steam Jet Draught

Question ID : 630680278206
 Option 1 ID : 6306801081181
 Option 2 ID : 6306801081184
 Option 3 ID : 6306801081182
 Option 4 ID : 6306801081183
 Status : Answered
 Chosen Option : 1

Q.120 The specific speed for a Francis Turbine in SI units is _____.

- Ans

 1. 255 to 860

 2. 8.5 to 30

 3. 30 to 51

 4. 51 to 225

Question ID : 630680278132

Option 1 ID : 6306801080888

Option 2 ID : 6306801080885

Option 3 ID : 6306801080886

Option 4 ID : 6306801080887

Status : Answered

Chosen Option : 1

Q.121 The head loss due to exit from a pipe is given by H. What will be the head loss due to entrance of the same pipe ?

- Ans

 1. H/2

 2. 2H

 3. H

 4. H²

Question ID : 630680278158

Option 1 ID : 6306801080990

Option 2 ID : 6306801080991

Option 3 ID : 6306801080989

Option 4 ID : 6306801080992

Status : Not Answered

Chosen Option : --

Q.122 Consider the following statements:

- A) Shear stress in a solid shaft due to applied torque is zero at the centre and maximum at the circumference.

B) According to torsion equation, twisting moment is directly proportional to the length.

- Ans

 1. Only B is true

 2. Only A is true

 3. Neither A or B are true

 4. Both A and B are true

Question ID : 630680278177

Option 1 ID : 6306801081066

Option 2 ID : 6306801081065

Option 3 ID : 6306801081068

Option 4 ID : 6306801081067

Status : Answered

Chosen Option : 2

Q.123 The rate of shear strain between a fixed plate and a moving plate is 24000 sec^{-1} . The viscosity of the fluid between the two plates is 5×10^{-4} poise. Find the force per unit area to maintain the speed of the moving plate.

- Ans
- ☒ 1. 1.4 N/m^2
 - ☒ 2. 1 N/m^2
 - ☒ 3. 1.2 N/m^2
 - ☒ 4. 1.6 N/m^2

Question ID : 630680278139
 Option 1 ID : 6306801080915
 Option 2 ID : 6306801080913
 Option 3 ID : 6306801080914
 Option 4 ID : 6306801080916
 Status : Answered
 Chosen Option : 3

Q.124 Consider the following statements:

- A) The expansion of steam through a nozzle is not a free expansion, and the steam is not throttled, because it has a large velocity at the end of the expansion.
 B) In a converging- diverging nozzle the super sonic region is the diverging section.

- Ans
- ☒ 1. Only B is true
 - ☒ 2. Only A is true
 - ☒ 3. Both A and B is true
 - ☒ 4. Neither A or B is true

Question ID : 630680278244
 Option 1 ID : 6306801081334
 Option 2 ID : 6306801081333
 Option 3 ID : 6306801081335
 Option 4 ID : 6306801081336
 Status : Answered
 Chosen Option : 3

Q.125 Determine the pressure increase (in Pascal) required to reduce the volume of water by 1.5 %, if its bulk modulus of elasticity is $2.2 \times 10^9 \text{ Pa}$.

- Ans
- ☒ 1. $7.5 \times 10^6 \text{ Pa}$
 - ☒ 2. $3.5 \times 10^7 \text{ Pa}$
 - ☒ 3. $4 \times 10^7 \text{ Pa}$
 - ☒ 4. $3.3 \times 10^7 \text{ Pa}$

Question ID : 630680278123
 Option 1 ID : 6306801080850
 Option 2 ID : 6306801080851
 Option 3 ID : 6306801080852
 Option 4 ID : 6306801080849
 Status : Answered
 Chosen Option : 4

Q.126 Reaction turbine means that the water at the inlet possesses _____.

- Ans

☐

1. no energy

☐

2. kinetic energy

☒

3. kinetic and pressure energy

☐

4. pressure energy

Question ID : 630680278133

Option 1 ID : 6306801080891

Option 2 ID : 6306801080890

Option 3 ID : 6306801080892

Option 4 ID : 6306801080889

Status : Answered

Chosen Option : 2

Q.127 Consider the following statements:

A)The major difficulty for Stirling engine to become obsolete in earlier times when otto cycle and diesel cycle came into use is due to the lack of research in heat exchangers to operate continuously at very high temperatures.

B) The mean effective pressure increases with the increase in compression ratio in an Otto cycle.

- Ans

☐

1. Only B is true

☒

2. Both A and B is true

☐

3. Neither A nor B is true

☐

4. Only A is true

Question ID : 630680278193

Option 1 ID : 6306801081130

Option 2 ID : 6306801081131

Option 3 ID : 6306801081132

Option 4 ID : 6306801081129

Status : Answered

Chosen Option : 2

Q.128 The mechanical loss in an engine is mainly constituted by:

- Ans

☒

1. frictional losses

☐

2. ventilating action of the flywheel

☐

3. Work of charging the cylinder with fresh charge

☐

4. power absorbed by engine auxiliaries

Question ID : 630680278195

Option 1 ID : 6306801081139

Option 2 ID : 6306801081138

Option 3 ID : 6306801081140

Option 4 ID : 6306801081137

Status : Answered

Chosen Option : 1

Q.129 Which of the following is used for periodical cleaning by discharging the water and sediments from bottom of boiler?

- Ans
- ☒ 1. Feed check valve
 - ☒ 2. fusible plug
 - ☒ 3. Blow off cock
 - ☒ 4. safety valve

Question ID : 630680278209
 Option 1 ID : 6306801081194
 Option 2 ID : 6306801081195
 Option 3 ID : 6306801081193
 Option 4 ID : 6306801081196
 Status : Answered
 Chosen Option : 3

Q.130 The diverging part of the venturimeter is relatively:

- Ans
- ☒ 1. longer or shorter than the converging section
 - ☒ 2. longer than the converging section
 - ☒ 3. shorter than the converging section
 - ☒ 4. equal to the converging section

Question ID : 630680278156
 Option 1 ID : 6306801080983
 Option 2 ID : 6306801080981
 Option 3 ID : 6306801080982
 Option 4 ID : 6306801080984
 Status : Answered
 Chosen Option : 2

Q.131 Consider the following statements:

- A) The processes in an Ericsson cycle are two isothermal and two constant pressure process.
 B) Diesel cycle consist of two isentropic processes and two constant volume processes.

- Ans
- ☒ 1. Both A and B is true
 - ☒ 2. Only B is true
 - ☒ 3. Only A is true
 - ☒ 4. Neither A nor B is true

Question ID : 630680278229
 Option 1 ID : 6306801081275
 Option 2 ID : 6306801081274
 Option 3 ID : 6306801081273
 Option 4 ID : 6306801081276
 Status : Answered
 Chosen Option : 3

Q.132 Hydrostatic Paradox is mathematically expressed as where P is the pressure at depth "h" from the surface of the liquid/fluid and h is the vertical height from the surface to the point.

- Ans
- ☒ 1. $P \propto 1/h$
 - ☒ 2. $1/P \propto h$
 - ☒ 3. $P \propto h^2$
 - ☒ 4. $P \propto h$

Question ID : 630680278155
Option 1 ID : 6306801080978
Option 2 ID : 6306801080979
Option 3 ID : 6306801080980
Option 4 ID : 6306801080977
Status : Answered
Chosen Option : 4

Q.133 Which of the following casing allows water to enter into the pump without shock?

- Ans
- ☒ 1. Diffuser casing
 - ☒ 2. Vortex casing
 - ☒ 3. Single casing
 - ☒ 4. Volute casing

Question ID : 630680278135
Option 1 ID : 6306801080899
Option 2 ID : 6306801080898
Option 3 ID : 6306801080900
Option 4 ID : 6306801080897
Status : Answered
Chosen Option : 4

Q.134 Identify the CORRECT examples listed for the following types of boilers:
1.Horizontal boilers
2.Vertical boilers

- Ans
- ☒ 1. 1)Locomotive boiler 2)Cornish Boiler
 - ☒ 2. 1)Cornish Boiler 2) Lancashire Boiler
 - ☒ 3. 1)Lancashire Boiler 2) Babcock and Wilcox boiler
 - ☒ 4. 1)Lancashire Boiler 2) Cochran Boiler

Question ID : 630680278242
Option 1 ID : 6306801081328
Option 2 ID : 6306801081326
Option 3 ID : 6306801081325
Option 4 ID : 6306801081327
Status : Answered
Chosen Option : 4

Q.135 Calculate density of 1 litre of fluid which is of weight 5N?
Take g as 10 m/sec^2

- Ans
- ☒ 1. 600 kg/m^3
 - ☒ 2. 700 kg/m^3
 - ☒ 3. 400 Kg/m^3
 - ☒ 4. 500 kg/m^3

Question ID : 630680278138
Option 1 ID : 6306801080912
Option 2 ID : 6306801080911
Option 3 ID : 6306801080909
Option 4 ID : 6306801080910
Status : Answered
Chosen Option : 4

Q.136 What will be the equation for the loss of head due to sudden enlargement if V_1 and V_2 are the velocities of the flow before and after the enlargement in a pipe?

- Ans
- ☒ 1. $(V_1 - V_2)^2 / (2g)$
 - ☒ 2. $(V_1 - V_2) / (2g)$
 - ☒ 3. $(V_1 - V_2)^2 / (g)$
 - ☒ 4. $(V_1^2 - V_2^2) / (2g)$

Question ID : 630680278141
Option 1 ID : 6306801080921
Option 2 ID : 6306801080924
Option 3 ID : 6306801080922
Option 4 ID : 6306801080923
Status : Answered
Chosen Option : 4

Q.137 Consider the following statements:

- A) The processes in an Stirling cycle are two isothermal and two constant volume process.
B) Otto cycle consist of two isentropic processes and two constant volume processes.

- Ans
- ☒ 1. Only B is true
 - ☒ 2. Neither A or B is true
 - ☒ 3. Only A is true
 - ☒ 4. Both A and B is true

Question ID : 630680278194
Option 1 ID : 6306801081134
Option 2 ID : 6306801081136
Option 3 ID : 6306801081133
Option 4 ID : 6306801081135
Status : Answered
Chosen Option : 3

Q.138 Consider the following statements:

- A) Few factors that affect weldability are welding process, base metal and filler materials.
B) Metals with high thermal conductivity tend to transfer heat away from the weld zone, which can make them hard to weld.

- Ans ☒ 1. Only B is true
☒ 2. Neither A nor B is true
☒ 3. Both A and B are true
☒ 4. Only A is true

Question ID : 630680278112
Option 1 ID : 6306801080806
Option 2 ID : 6306801080808
Option 3 ID : 6306801080807
Option 4 ID : 6306801080805

Status : Answered

Chosen Option : 3

Q.139 For which of the following processes the internal energy becomes equal to the heat transferred ($\Delta U = Q$)?

- Ans ☒ 1. adiabatic process
☒ 2. isochoric process.
☒ 3. Isothermal Process
☒ 4. Isobaric process

Question ID : 630680278190
Option 1 ID : 6306801081119
Option 2 ID : 6306801081118
Option 3 ID : 6306801081120
Option 4 ID : 6306801081117

Status : Answered

Chosen Option : 2

Q.140 A spur gear has 30 teeth which are rotating at 300 rpm. Determine the circular pitch of the gear if the module of the gear is 4?

- Ans ☒ 1. 6.28
☒ 2. 7.51
☒ 3. 9.42
☒ 4. 12.56

Question ID : 630680278184
Option 1 ID : 6306801081093
Option 2 ID : 6306801081094
Option 3 ID : 6306801081095
Option 4 ID : 6306801081096

Status : Answered

Chosen Option : 4