

RollNumber	SSC JE 2023 Oct 11 Shift 2 Mechanical Question Paper with Answers
CandidateName	
VenueName	
ExamDate	11/10/2023
ExamTime	1:00PM-3:00PM
Subject	JuniorEngineer2023MechanicalPaperI

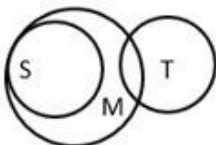
Section :GeneralIntelligenceandReasoning

Q.1 SelecttheVenndiagramthatbestillustratestherelationshipbetweenthefollowingclasses.

Sisters,Mothers,Teachers

Ans

X1.



X2.

✓3.

X4.

QuestionID:264330144582

Option1ID:264330566583

Option2ID:264330566585

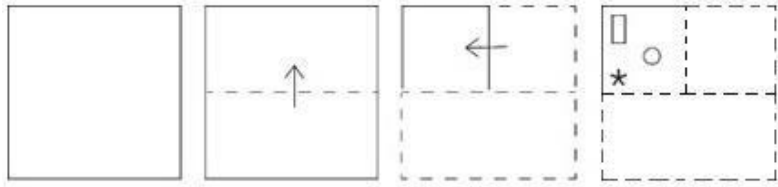
Option3ID:264330566586

Option4ID:264330566584

Status:Answered

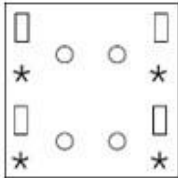
ChosenOption:3

Q.2 A paper is folded and cut as shown below. How will it appear when unfolded?

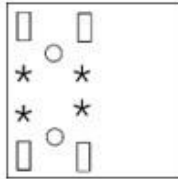


Ans

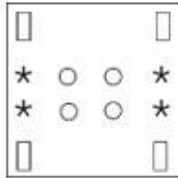
✗ 1.



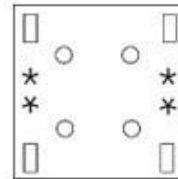
✗ 2.



✗ 3.



✓ 4.



QuestionID:264330103011

Option1ID:264330404433

Option2ID:264330404434

Option3ID:264330404436

Option4ID:264330404435

Status:Answered

ChosenOption:4

Q.3 कसीतवीरममौजूद एक कओरइंगतकरते एरालने कहा "वहमेरेपताकपुीकपुीका पताहै।" तवीरममौजूदकारालसेयासंबंधहै

Ans ✗ 1. पु

✓ 2. बहनोई

✗ 3. भांजा

✗ 4. भाई

QuestionID:26433086261

Option1ID:264330338739

Option2ID:264330338738

Option3ID:264330338740

Option4ID:264330338737

Status:Answered

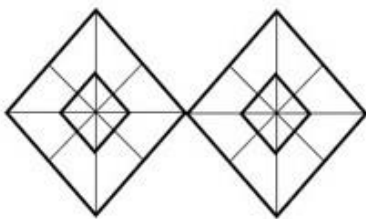
ChosenOption:2

Q.48 friends, Abhay, Bala, Chan, Dev, Emran, Fanny, Geeta and Hema are sitting around a square table such that four of them sit at the corners and the other four sit at the exact centre of the sides. Those sitting at the corners are facing outside while those sitting at the centre of the sides are facing the centre. Dev is sitting third to the right of Geeta and is facing the centre. Emran is third to the left of Chan who is not sitting at the centre of the sides. Only one person sits between Emran and Fanny. Fanny is not Chan's neighbour. Hema is sitting facing the centre. Abhay is not Fanny's neighbour. Who is sitting third to the right of Chan?

- Ans
- ☒ 1. Bala
 - ☒ 2. Fanny
 - ☒ 3. Emran
 - ☒ 4. Geeta

QuestionID:26433085631
 Option1ID:264330336225
 Option2ID:264330336227
 Option3ID:264330336228
 Option4ID:264330336226
 Status:NotAnswered
 ChosenOption:--

Q.5 How many squares are there in the given figure?



- Ans
- ☒ 1. 16
 - ☒ 2. 20
 - ☒ 3. 18
 - ☒ 4. 22

QuestionID:26433068431
 Option1ID:264330268236
 Option2ID:264330268238
 Option3ID:264330268237
 Option4ID:264330268239
 Status:Answered
 ChosenOption:2

Q.6 Select the option that is related to the third term in the same way as the second term is related to the first term and the sixth term is related to the fifth term.

56:14::88:?:32:11

Ans ☒ 1.15

☒ 2.18

☒ 3.23

☒ 4.28

QuestionID:264330126044

Option1ID:264330493848

Option2ID:264330493851

Option3ID:264330493849

Option4ID:264330493850

Status:Answered

ChosenOption:3

Q.7 Which two signss should be interchanged to make the given equation correct? $36 - 5 + 240 \div 6 \times 17 = 203$

Ans ☒ 1. ÷ and -

☒ 2. - and ×

☒ 3. × and +

☒ 4. ÷ and +

QuestionID:264330129529

Option1ID:264330507482

Option2ID:264330507485

Option3ID:264330507484

Option4ID:264330507483

Status:Answered

ChosenOption:2

Q.8 Select the set in which the numbers are related in the same way as are the numbers of the following set

(NOTE: Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits. E.g. 13 - Operation 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.)

(7,340,3)

(4,63,1)

Ans ☒ 1. (3,23,4)

☒ 2. (3,56,7)

☒ 3. (9,34,1)

☒ 4. (2,6,1)

QuestionID:264330144449

Option1ID:264330566054

Option2ID:264330566052

Option3ID:264330566053

Option4ID:264330566051

Status:Answered

ChosenOption:1

Q.9 'FSH' is related to '10HUJ' in a certain way. In the same way, '8STH' is related to '16UVJ'. Which of the following is related to '12PEP' using the same logic?

- Ans
- ☒ 1. 24MCM
 - ☒ 2. 18NCN
 - ☒ 3. 24NCN
 - ☒ 4. 6NCN

QuestionID: 264330144607
Option1ID: 264330566684
Option2ID: 264330566686
Option3ID: 264330566683
Option4ID: 264330566685
Status: Answered
ChosenOption: 3

Q.10 In a certain code language, 'CROSS' is written as '66' and 'CHART' is written as '90'. How will 'SYMBOL' be written in that language?

- Ans
- ☒ 1. 82
 - ☒ 2. 76
 - ☒ 3. 88
 - ☒ 4. 93

QuestionID: 264330144554
Option1ID: 264330566473
Option2ID: 264330566472
Option3ID: 264330566471
Option4ID: 264330566474
Status: Answered
ChosenOption: 1

Q.11 Select the option that represents the correct order of the given words as they would appear in an English dictionary.

1. Manager
2. Maintain
3. Malice
4. Match
5. Mark

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

QuestionID: 264330132449
Option1ID: 264330518891
Option2ID: 264330518893
Option3ID: 264330518894
Option4ID: 264330518892
Status: Answered
ChosenOption: 2

Q.12 Select the correct mirror image of the given combination when the mirror is placed at MN as shown below.

Q S N 9 5 % K



Ans

1. K % 2 e n 2 O
2. K % 2 e n 2 O
3. K % 2 e n 2 O
4. K % 2 e n 2 O

QuestionID:264330144785

Option1ID:264330567395

Option2ID:264330567397

Option3ID:264330567396

Option4ID:264330567398

Status:Answered

ChosenOption:2

Q.13 Which of the following numbers will replace the question mark (?) in the given series? 143, 153, 146, ?, 142, 152

Ans

- ☒ 1. 145
- ☒ 2. 156
- ☒ 3. 155
- ☒ 4. 144

QuestionID:26433091719

Option1ID:264330360244

Option2ID:264330360241

Option3ID:264330360243

Option4ID:264330360242

Status:Answered

ChosenOption:2

Q.14 Arrange the following words in a logical and meaningful order.

1. chapter
2. sentence
3. letter
4. phrase
5. word

Ans ☒ 1.3,4,2,1,5

☒ 2.3,4,5,1,2

☒ 3.3,5,4,2,1

☒ 4.3,4,5,2,1

QuestionID:26433082525

Option1ID:264330323933

Option2ID:264330323936

Option3ID:264330323935

Option4ID:264330323934

Status:Answered

ChosenOption:3

Q.15 Select the option that represents the correct order of the given words as they would appear in an English dictionary.

1. Demography
2. Denial
3. Demonstrate
4. Dense
5. Demolish

Ans ☒ 1.1,5,3,4,2

☒ 2.1,5,3,2,4

☒ 3.1,3,5,2,4

☒ 4.1,5,2,3,4

QuestionID:264330129548

Option1ID:264330507561

Option2ID:264330507560

Option3ID:264330507558

Option4ID:264330507559

Status:Answered

ChosenOption:2

Q.16 In a certain code language, "CTA" is coded as "1203" and "RXB" is coded as "22418". How will "MQV" be coded in that language?

Ans ☒ 1.211419

☒ 2.221713

☒ 3.211812

☒ 4.201614

QuestionID:264330132246

Option1ID:264330518082

Option2ID:264330518079

Option3ID:264330518080

Option4ID:264330518081

Status:Answered

ChosenOption:2

Q.17 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:

All clothes are jeans. A
If jeans are shirts.

Conclusions:

I. All clothes are shirts.
II. At least some shirts are jeans. Ans

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

QuestionID:264330144656

Option1ID:264330566880

Option2ID:264330566881

Option3ID:264330566882

Option4ID:264330566879

Status:Answered

ChosenOption:2

Q.18 Select the combination of letters that when sequentially placed in the blanks of the given series, will complete the series.

R _ M L _ P _ P _ N P R _ M L _ P _ P _ L N _ A

- ns
- ☐ 1. P N M R L P N M R P
 - ☒ 2. P N R M L P N R M P
 - ☐ 3. P N R M P L N R P M
 - ☐ 4. N P R M L N P R M P

QuestionID:264330144516

Option1ID:264330566320

Option2ID:264330566319

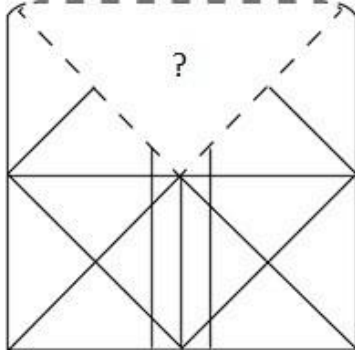
Option3ID:264330566322

Option4ID:264330566321

Status:Answered

ChosenOption:2

Q. 19 Select the figure from the options that can replace the question mark (?) and complete the pattern.



Ans

☐ 1.

☒ 2.

☐ 3.

☐ 4.

QuestionID:26433092783

Option1ID:264330364422

Option2ID:264330364421

Option3ID:264330364424

Option4ID:264330364423

Status:Answered

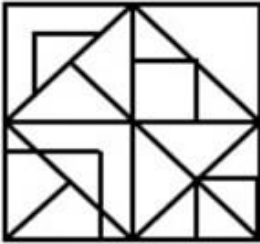
ChosenOption:3

Q.20 Select the option in which the given figure is embedded (rotation is NOT allowed).

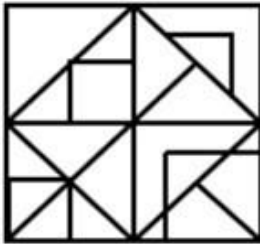


Ans

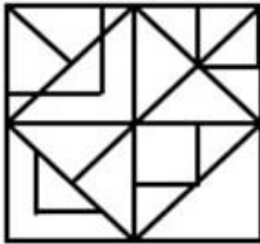
✗1.



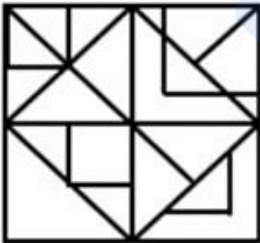
✓2.



✗3.



✗4.



QuestionID:264330129544

Option1ID:264330507543

Option2ID:264330507545

Option3ID:264330507544

Option4ID:264330507542

Status:Answered

ChosenOption:2

Q.21 उस सही विकल्प का चयन कर, जो ननलखतशदके ताकक और साथकममवापनकोइंस्करताहै।

1. नवजातशशु
2. कशोर
3. नहाबा
4. वयक
5. ण

Ans ☒ 1. 53142
☒ 2. 14532
☒ 3. 51324
☒ 4. 13254

QuestionID: 264330131043

Option1ID: 264330513285

Option2ID: 264330513283

Option3ID: 264330513286

Option4ID: 264330513284

Status: Answered

ChosenOption: 3

Q.22 In certain code language, 'CARRY' is coded as YRUAC and 'HUMAN' is coded as NAPUH. How will 'NIGHT' be coded in that language?

Ans ☒ 1. TGHIN
☒ 2. TGHNI
☒ 3. THJIN
☒ 4. THKIN

QuestionID: 264330133211

Option1ID: 264330521893

Option2ID: 264330521892

Option3ID: 264330521894

Option4ID: 264330521891

Status: Answered

ChosenOption: 3

Q.23 उस शब्द का चयन कर जहाँ, जसमद एग ए दोन शब्द एक सरे से उसीतरह से संबंधतह, जसतरह एयुम के दोन शब्द एक सरे से संबंधतह।
 (शब्द को साथक शब्द माना जाना चाहिए, और शब्दम अरक संया/ंजन/वरक संया के आधार पर एक सरे से संबंधतनह होना चाहिए।)

चार (Propagate): सार (Disseminate)

Ans ☒ 1. तपर (Prompt): दमत (Quash)
☒ 2. पूजनीय (Sublime): दय (Divine)
☒ 3. तीता (Rapidity): जड़ता (Inertia)
☒ 4. पव (Sacred): अपव (Profane)

QuestionID: 264330114740

Option1ID: 264330451045

Option2ID: 264330451046

Option3ID: 264330451048

Option4ID: 264330451047

Status: Answered

ChosenOption: 2

Q.24 Select the option that is related to the fourth term in the same way as the first term is related to the second term and the fifth term is related to the sixth term.

529:21::?:19::841:27

Ans ☒ 1.484

☒ 2.361

☒ 3.402

☒ 4.441

QuestionID:264330144442

Option1ID:264330566026

Option2ID:264330566023

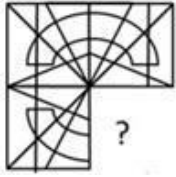
Option3ID:264330566025

Option4ID:264330566024

Status:Answered

ChosenOption:4

Q.25 Select the figure which will replace the question mark (?) in the given figure to complete the pattern.



Ans

☒ 1.



☒ 2.



☒ 3.



☒ 4.



QuestionID:26433085667

Option1ID:264330336370

Option2ID:264330336371

Option3ID:264330336372

Option4ID:264330336369

Status:Answered

ChosenOption:3

Q.26 Which of the following numbers will replace the question marks (?) in the given series? 523, 513, ?, 496, ?, 483, 478, 474

Ans ☒ 1. 504, 489

☐ 2. 500, 488

☐ 3. 509, 490

☐ 4. 510, 490

QuestionID: 26433096011

Option1ID: 264330376815

Option2ID: 264330376813

Option3ID: 264330376816

Option4ID: 264330376814

Status: Answered

ChosenOption: 1

Q.27 Which two signs should be interchanged to make the given equation correct? $9 \times 182 + 14 \div 67 - 33 = 151$

Ans ☐ 1. ÷ and -

☐ 2. - and ×

☒ 3. ÷ and +

☐ 4. × and +

QuestionID: 264330129537

Option1ID: 264330507514

Option2ID: 264330507517

Option3ID: 264330507515

Option4ID: 264330507516

Status: Not Attempted and
Marked For Review

ChosenOption: --

Q.28 Six friends are sitting in a circle facing the centre. Sumit sits second to the right of Amit. Karan is an immediate neighbour of Param. Tony sits third to the right of Amit. Dharam is an immediate neighbour of Amit and Sumit. Karan sits second to the right of Sumit.

Who sits to the immediate left of Amit?

Ans ☐ 1. Dharam

☒ 2. Param

☐ 3. Karan

☐ 4. Tony

QuestionID: 264330144640

Option1ID: 264330566816

Option2ID: 264330566815

Option3ID: 264330566817

Option4ID: 264330566818

Status: Not Answered

ChosenOption: --

Q.29 Select the correct mirror image of the given combination when the mirror is placed at 'PQ' as shown.

FYU2VD

P ————— Q

Ans

1. 

 2. 

 3. 

 4. 

QuestionID:26433056844

Option1ID:264330222363

Option2ID:264330222362

Option3ID:264330222361

Option4ID:264330222360

Status:Answered

ChosenOption:2

Q.30 Select the option that is related to the fifth term in the same way as the second term is related to the first term and the fourth term is related to the third term.
18:52::8:22::12:?

Ans

✓ 1.34

✗ 2.38

✗ 3.28

✗ 4.43

QuestionID:26433078934

Option1ID:264330309749

Option2ID:264330309748

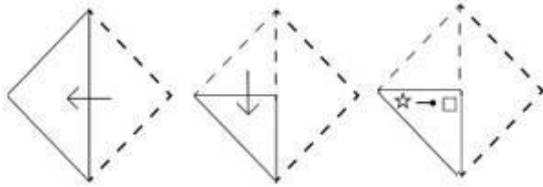
Option3ID:264330309751

Option4ID:264330309750

Status:Answered

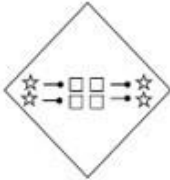
ChosenOption:1

Q.31 A paper is folded and cut as shown below. How will it appear when unfolded?

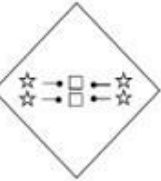


Ans

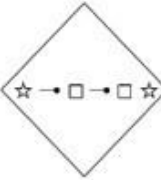
✗ 1.



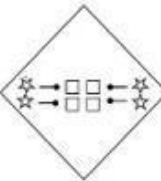
✗ 2.



✗ 3.



✓ 4.



QuestionID:264330103015

Option1ID:264330404451

Option2ID:264330404452

Option3ID:264330404449

Option4ID:264330404450

Status:Answered

ChosenOption:4

Q.32 A is the mother of
B. B is the husband of C.
D is the father-in-law of C. How is A related to D?

Ans ✓ 1. Wife

✗ 2. Father

✗ 3. Sister

✗ 4. Mother

QuestionID:26433092474

Option1ID:264330363187

Option2ID:264330363188

Option3ID:264330363186

Option4ID:264330363185

Status:Answered

ChosenOption:1

Q.33 In a certain code language, 'POLISH' is written as '89' and 'CLIP' is written as '72'. How will 'CONTR OL' be written in that language?

- Ans
- ☒ 1. 106
 - ☒ 2. 99
 - ☒ 3. 89
 - ☒ 4. 92

QuestionID: 264330144552
Option1ID: 264330566464
Option2ID: 264330566465
Option3ID: 264330566466
Option4ID: 264330566463
Status: Answered
ChosenOption: 2

Q.34 Which letter cluster will replace the question mark (?) to complete the given series?

JIVC, DEXH, XAZM, ?

- Ans
- ☒ 1. RWBR
 - ☒ 2. RWCR
 - ☒ 3. RXBR
 - ☒ 4. RXCR

QuestionID: 264330144644
Option1ID: 264330566834
Option2ID: 264330566832
Option3ID: 264330566833
Option4ID: 264330566831
Status: Answered
ChosenOption: 1

Q.35 Select the option that is related to the third word in the same way as the second word is related to the first word. (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)

Ink: Pen :: Paint: ?

- Ans
- ☒ 1. Art
 - ☒ 2. Brush
 - ☒ 3. Paper
 - ☒ 4. Sketch

QuestionID: 264330144660
Option1ID: 264330566895
Option2ID: 264330566896
Option3ID: 264330566897
Option4ID: 264330566898
Status: Answered
ChosenOption: 2

Q.36 Point G is 9m to the west of Point H. Point B is 10m to the north of Point H. Point A is 18m to the west of Point B. Point C is 28m to the north of Point A. Point C is 23m to the west of Point D. Point E is 18m to the south of Point D. Point F is 5m to the west of Point E. What is the distance between Point H and Point F?

- Ans
- ☐ 1. 10m
 - ☐ 2. 15m
 - ☐ 3. 18m
 - ☒ 4. 20m

QuestionID:264330131633

Option1ID:264330515631

Option2ID:264330515634

Option3ID:264330515632

Option4ID:264330515633

Status:NotAnswered

ChosenOption:--

Q.37 Select the figure from the options that can replace the question mark (?) and complete the given pattern.



Ans

X1.



X2.



✓3.



X4.



QuestionID:26433074801
Option1ID:264330293295
Option2ID:264330293292
Option3ID:264330293293
Option4ID:264330293294

Status:Answered

ChosenOption:3

Q.38 Maanv cycles X km towards the north from her home and then turns right and cycles Y km to reach Point A. She then turns left and cycles for X + Y km to reach her shop. If she cycled for a total of 12 km from her home to her shop, what is the distance between Point A and her shop?

- Ans
- ☒ 1.7 km
 - ☒ 2.3 km
 - ☒ 3.6 km
 - ☒ 4.4 km

QuestionID: 26433097235
 Option1ID: 264330381639
 Option2ID: 264330381640
 Option3ID: 264330381638
 Option4ID: 264330381637

Status: Not Answered
 ChosenOption: --

Q.39 Select the correct combination of mathematical signs to sequentially replace the * signs and balance the given equation.
 $13 * 64 * 2 * 8 * 11 = 18$

- Ans
- ☒ 1. $\times \div - + \times$
 - ☐ 2. $\times \div + -$
 - ☒ 3. $+ - \times \div$
 - ☒ 4. $+ \times \div -$

QuestionID: 26433068594
 Option1ID: 264330268889
 Option2ID: 264330268891
 Option3ID: 264330268890
 Option4ID: 264330268888

Status: Not Attempted and Marked For Review
 ChosenOption: --

Q.40 उस वक्ता का चयन कीजिए, जो तीसरे शब्द से उसी प्रकार संबंधित है, जिसका रसराशद पहला शब्द से संबंधित है। (शब्द को अथ पूरा शब्द के पद माना जाना चाहिए, और शब्द म अरक संज्ञा/यंजन/वरक संज्ञा के आधार पर एक से संबंधित नहीं होना चाहिए।)

वत (Organise): बेतरतीब (Jumble):: वदेशी (Overseas): ?

- Ans
- ☒ 1. परदेश (Foreign)
 - ☒ 2. घरेलू (Domestic)
 - ☒ 3. वदेश (Abroad)
 - ☒ 4. एलयन (Alien)

QuestionID: 264330144566
 Option1ID: 264330566520
 Option2ID: 264330566521
 Option3ID: 264330566519
 Option4ID: 264330566522

Status: Answered
 ChosenOption: 2

Q.41 Select the option that represents the letters which, when sequentially placed from left to right in the blanks below, will complete the letter series.

_ E N _ A E _ D R _ E A n s

☒ 1. R N A D A

☒ 2. A D R N A

☒ 3. N R A D A

☒ 4. D N A A R

QuestionID:26433086964

Option1ID:264330341500

Option2ID:264330341497

Option3ID:264330341498

Option4ID:264330341499

Status: Answered

ChosenOption: 1

Q.42 Which of the following option figures will complete the pattern in the figure given below?



Ans



QuestionID:26433080581

Option1ID:264330316257

Option2ID:264330316259

Option3ID:264330316260

Option4ID:264330316258

Status: Answered

ChosenOption: 4

Q.43 'NEST' is related to 'PHUW' in a certain way based on the English alphabetical order. In the same way, 'PW SR' is related to 'RZUU'. Which of the following is related to 'MORG' using the same logic?

Ans ☒ 1. KLPD

☒ 2. KLOD

☒ 3. KLPE

☒ 4. KLQD

QuestionID:264330144608

Option1ID:264330566688

Option2ID:264330566690

Option3ID:264330566687

Option4ID:264330566689

Status:NotAnswered

ChosenOption:--

Q.44 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)

(5,4,33)

(7,3,55)

Ans ☒ 1. (9,4,98)

☒ 2. (14,5,260)

☒ 3. (11,7,135)

☒ 4. (8,12,78)

QuestionID:264330144422

Option1ID:264330565945

Option2ID:264330565946

Option3ID:264330565944

Option4ID:264330565943

Status:NotAnswered

ChosenOption:--

Q.45 Which letter cluster will replace the question mark (?) to complete the given series?

LDL,NHJ,PLH,RPF,?

Ans ☒ 1. TSD

☒ 2. STC

☒ 3. TTD

☒ 4. SSD

QuestionID:264330144570

Option1ID:264330566538

Option2ID:264330566535

Option3ID:264330566537

Option4ID:264330566536

Status:NotAnswered

ChosenOption:--

Q.46 Select the number from among the given options that can replace the question mark (?) in the following series.

4, 80, 159, 244, 338, ?

Ans ☒ 1.443

☒ 2.434

☒ 3.433

☒ 4.444

QuestionID:26433078928

Option1ID:264330309725

Option2ID:264330309724

Option3ID:264330309726

Option4ID:264330309727

Status:NotAnswered

ChosenOption:--

Q.47 If '+' means '-', '-'

'means ×', '×' means '÷', '÷' means '+', then what will come in place of the question mark (?) in the following equation?

$11 - 42 \times 6 \div 69 + 27 = ?$

Ans ☒ 1.127

☒ 2.131

☒ 3.106

☒ 4.119

QuestionID:264330126065

Option1ID:264330493934

Option2ID:264330493932

Option3ID:264330493935

Option4ID:264330493933

Status:NotAnswered

ChosenOption:--

Q.48 There are seven family members Q, R, S, T, U, V and W. Each are of different ages. R is elder than only three other members. S is younger than V but elder than W, who is the youngest among all. Q is elder than R but younger than U. U is not the eldest among all. How many family members are there between Q and W?

Ans ☒ 1.2

☒ 2.3

☒ 3.1

☒ 4.4

QuestionID:26433068889

Option1ID:264330270071

Option2ID:264330270069

Option3ID:264330270068

Option4ID:264330270070

Status:NotAnswered

ChosenOption:--

Q.49 Select the letter-cluster from among the given options that can replace the question mark (?) in the following series.

ICMS, KDOT, ?, OFSV, QGUWA

- ns
- ☒ 1. MESU
 - ☒ 2. MEQU
 - ☒ 3. LEQU
 - ☒ 4. MERU

QuestionID:264330144521
Option1ID:264330566341
Option2ID:264330566340
Option3ID:264330566339
Option4ID:264330566342
Status:NotAnswered

ChosenOption:--

Q.50 Select the word-pair in which the two words are related in the same way as are the two words in the given pair.
Yarn: Fabric

- Ans
- ☒ 1. Petrol: Car
 - ☒ 2. Lock: Key
 - ☒ 3. Brick: Wall
 - ☒ 4. Poem: Poet

QuestionID:26433082757
Option1ID:264330324863
Option2ID:264330324864
Option3ID:264330324862
Option4ID:264330324861
Status:NotAnswered

ChosenOption:--

Section: General Awareness

Q.1 According to the Centre for Monitoring Indian Economy (CMIE), in which state of India was the unemployment rate recorded as 34.5%, as of April 2022?

- Ans
- ☒ 1. Maharashtra
 - ☒ 2. Assam
 - ☒ 3. Andhra Pradesh
 - ☒ 4. Haryana

QuestionID:264330113298
Option1ID:264330445278
Option2ID:264330445280
Option3ID:264330445279
Option4ID:264330445277
Status:Answered

ChosenOption:4

Q.2 In January 2023, who among the following has been appointed as the new Vice-

Chief of the Indian Air Force? @Truly_Engineers

Ans ☒ 1. Nagesh Kapoor

☒ 2. Sandeep Singh

☒ 3. A P Singh

☒ 4. Rakesh Kumar Singh Bhadauria

QuestionID: 264330137295

Option1ID: 264330537810

Option2ID: 264330537808

Option3ID: 264330537807

Option4ID: 264330537809

Status: Answered

ChosenOption: 2

Q.3 Which of the statements is NOT correct regarding the earthquake waves? Ans

☒ 1. P-waves are called the primary waves.

☒ 2. S-waves is that they can travel only through solid materials.

☒ 3. P-waves move faster and are the first to arrive at the surface.

☒ 4. P-wave can travel through only solid and liquid mediums but not gaseous mediums.

QuestionID: 26433055827

Option1ID: 264330218294

Option2ID: 264330218295

Option3ID: 264330218293

Option4ID: 264330218292

Status: Not Answered

ChosenOption: --

Q.4 Most of the crops being cereals, required approximately _____ of dietary water footprint.

Ans ☒ 1. 50%

☒ 2. 83%

☒ 3. 28%

☒ 4. 74%

QuestionID: 264330144389

Option1ID: 264330565812

Option2ID: 264330565814

Option3ID: 264330565811

Option4ID: 264330565813

Status: Answered

ChosenOption: 2

Q.5 Who was the leader of Kainga Satyagraha that was launched against the government? Ans

✓ 1. Mahatma Gandhi

✗ 2. Baba Ramchandra

✗ 3. N. G. Ranga

✗ 4. Sardar Patel

QuestionID: 264330112167

Option1ID: 264330440754

Option2ID: 264330440756

Option3ID: 264330440755

Option4ID: 264330440753

Status: Not Answered

ChosenOption: --

Q.6 कौन सी चीज को सही से देखने से सड़क पर लगे हुए लोगों को सड़क से हटाने में मदद मिल सकती है।
 खुशहाली के सूचकांक के पमानों को भी बढ़ाया जा सकता है। लेकिन कुछ कारण ऐसे होते हैं
 जिनके बिना हम सही नहीं हो सकते हैं। निम्नलिखित में से कौन सा इन कारणों में से एक नहीं है?

Ans ✗ 1. गैर-मौक आदान-दान (Non-monetary exchanges)

✗ 2. बाह्य प्रभाव (Externalities)

✓ 3. राजनीतिक जागरूकता (Level of political awareness)

✗ 4. जीडीपी का वितरण (Distribution of GDP)

QuestionID: 26433082234

Option1ID: 264330322770

Option2ID: 264330322771

Option3ID: 264330322772

Option4ID: 264330322769

Status: Answered

ChosenOption: 1

Q.7 Which team won the 2022 Durand Cup? Ans

✓ 1. Bengaluru Football Club

✗ 2. ATK Mohun Bagan

✗ 3. Goa FC

✗ 4. Mumbai City FC

QuestionID: 264330119250

Option1ID: 264330467288

Option2ID: 264330467289

Option3ID: 264330467290

Option4ID: 264330467287

Status: Answered

ChosenOption: 2

Q.8 Identify the chemical formula for ethyne. Ans

✓ 1. C_2H_2

✗ 2. C_2H_6

✗ 3. C_2H_5OH

✗ 4. CH_4

QuestionID:264330134861

Option1ID:264330528380

Option2ID:264330528382

Option3ID:264330528381

Option4ID:264330528379

Status:Answered

ChosenOption:1

Q.9 All England Championships is associated with _____.

Ans ✓ 1. Badminton

✗ 2. Cricket

✗ 3. Tennis

✗ 4. Table tennis

QuestionID:264330110337

Option1ID:264330433626

Option2ID:264330433625

Option3ID:264330433627

Option4ID:264330433628

Status:Answered

ChosenOption:3

Q.10 As per Finance Bill 2023, eligible start-ups will be able to set off and carry forward losses incurred during their first ten years of incorporation, even if there has been a change in shareholding, if all shareholders continued during the relevant period. The previous time limit of seven years has been increased to _____.

Ans ✗ 1. 12 years

✗ 2. 13 years

✗ 3. 15 years

✓ 4. 10 years

QuestionID:264330156941

Option1ID:264330615140

Option2ID:264330615141

Option3ID:264330615142

Option4ID:264330615139

Status:Not Answered

ChosenOption:--

Q.11 Which of the following metals is present in nature in its free state? Ans 

1. Magnesium

 2. Platinum

 3. Zinc

 4. Calcium

QuestionID:264330131683

Option1ID:264330515832

Option2ID:264330515831

Option3ID:264330515834

Option4ID:264330515833

Status:Answered

ChosenOption:4

Q.12 When did 5G services begin to be offered in India? Ans

 1. 19 September 2021

 2. 10 October 2022

 3. 28 September 2022

 4. 10 August 2021

QuestionID:264330130582

Option1ID:264330511439

Option2ID:264330511442

Option3ID:264330511441

Option4ID:264330511440

Status:Not Answered

ChosenOption:--

Q.13 Which of the following is a common condition that develops when a sticky substance called plaque builds up inside your arteries, causing them to harden and narrow?

Ans  1. Atherosclerosis

 2. Multiple sclerosis

 3. Hyperaldosteronism

 4. Hypervitaminosis

QuestionID:264330130989

Option1ID:264330513068

Option2ID:264330513069

Option3ID:264330513070

Option4ID:264330513067

Status:Answered

ChosenOption:3

Q. 14 Chilika Lake is a brackish water lagoon, spread over which districts of Odisha state? Ans

- ✓ 1. Puri, Khurda and Ganjam
- ✗ 2. Angul, Cuttak and Puri
- ✗ 3. Puri, Cuttack and Ganjam
- ✗ 4. Puri, Bhubaneswar and Khurda

QuestionID: 26433054948
 Option1ID: 264330214779
 Option2ID: 264330214776
 Option3ID: 264330214777
 Option4ID: 264330214778
 Status: Not Answered

ChosenOption: --

Q. 15 Martyrdom of revolutionary _____ took place on 27 February, 1931.

- Ans
- ✗ 1. Bhagat Singh
 - ✗ 2. Sachindranath Sanyal
 - ✓ 3. Chandrashekhar Azad
 - ✗ 4. Batukeshwar Dutt

QuestionID: 264330111412
 Option1ID: 264330437735
 Option2ID: 264330437733
 Option3ID: 264330437734
 Option4ID: 264330437736
 Status: Answered

ChosenOption: 3

Q. 16 सबसे स _____ शासक पृथ्वीराज तृतीय थे, जह 1192 में एक अफगान शासक सुतानमहु
 मदग ने निहराया था।

- Ans
- ✗ 1. राकूट
 - ✓ 2. चाहमान/चौहान
 - ✗ 3. तहार
 - ✗ 4. पाल

QuestionID: 26433089868
 Option1ID: 264330352952
 Option2ID: 264330352950
 Option3ID: 264330352951
 Option4ID: 264330352949
 Status: Answered

ChosenOption: 2

Q. 17 Which of the following statements is INCORRECT about migration in India? Ans 

1. Migration may be rural to urban.

 2. Migration has pull and push factors.

 3. Migration does not depend on social factors.

 4. It may be urban to rural areas.

QuestionID: 264330144418

Option1ID: 264330565927

Option2ID: 264330565929

Option3ID: 264330565930

Option4ID: 264330565928

Status: Answered

ChosenOption: 4

Q. 18 Darshana Jhaveri and Devjani Chaliha are best known for their contribution to which of the given styles of Indian dance?

Ans  1. Kathak

 2. Manipuri

 3. Kuchipudi

 4. Bharatanatyam

QuestionID: 264330130514

Option1ID: 264330511169

Option2ID: 264330511168

Option3ID: 264330511167

Option4ID: 264330511170

Status: Not Answered

ChosenOption: --

Q. 19 ननलखतमसेकौन-सामूलकतमसूचीबनहै? Ans 

1. आम असंगतक भावनाको बढावा देना

 2. समृद्धि वसातको महवदेना और उससे परत करना

 3. कृतक पयावरणका संरक्षण करना और उसम सुधार करना

 4. सावक संपक सुराकरण, और हसासे रहना

QuestionID: 264330112766

Option1ID: 264330443152

Option2ID: 264330443149

Option3ID: 264330443151

Option4ID: 264330443150

Status: Answered

ChosenOption: 1

Q.20 Which cybersecurity measure involves verifying the identity of users before granting access to a system or network?

- Ans
- ☐ 1. Firewall configuration
 - ☐ 2. Regular software updates
 - ☒ 3. Multi-factor authentication
 - ☐ 4. Network encryption

QuestionID: 264330168584

Option1ID: 264330661147

Option2ID: 264330661148

Option3ID: 264330661149

Option4ID: 264330661150

Status: Answered

ChosenOption: 1

Q.21 Name the Government scheme aimed to benefit women entrepreneurs from backward backgrounds.

- Ans
- ☐ 1. Beti Bachao Beti Padhao
 - ☒ 2. Mahila Samridhi Yojana
 - ☐ 3. Pradhan Mantri Matru Vandana Yojana
 - ☐ 4. Ujjawala

QuestionID: 264330110667

Option1ID: 264330434945

Option2ID: 264330434947

Option3ID: 264330434946

Option4ID: 264330434948

Status: Answered

ChosenOption: 2

Q.22 Which of the following pairs of coast and the state in which it is located is INCORRECT? Ans

- ☐ 1. Konkan coast - Maharashtra
- ☐ 2. Gaon coast - Karnataka
- ☒ 3. Malabar coast - Tamil Nadu
- ☐ 4. Kathiawar coast - Gujarat

QuestionID: 26433055657

Option1ID: 264330217613

Option2ID: 264330217614

Option3ID: 264330217615

Option4ID: 264330217612

Status: Answered

ChosenOption: 2

Q.23 ननलखतमसेकौन-सावतुमुा(commodity money)नहहै

- Ans
- ☐ 1. तांबा
 - ☐ 2. चांद
 - ☒ 3. बतन
 - ☐ 4. सोना

QuestionID: 264330144410
Option1ID: 264330565898
Option2ID: 264330565897
Option3ID: 264330565895
Option4ID: 264330565896
Status: Answered
ChosenOption: 3

Q.24 WhoclassifiedIndiansocietyintosevenclasses?

- Ans
- ☐ 1. Strabo
 - ☒ 2. Megasthenes
 - ☐ 3. Pliny
 - ☐ 4. Arian

QuestionID: 264330112132
Option1ID: 264330440614
Option2ID: 264330440615
Option3ID: 264330440613
Option4ID: 264330440616
Status: NotAnswered
ChosenOption: --

Q.25 WhatistherespectivepercentageofCO₂,N₂,andO₂intheatmosphere?

- Ans
- ☐ 1. CO₂ = 0.08%, N₂ = 70.08%, O₂ = 29.95%
 - ☒ 2. CO₂ = 0.04%, N₂ = 78.08%, O₂ = 20.95%
 - ☐ 3. CO₂ = 0.03%, N₂ = 68.08%, O₂ = 30.95%
 - ☐ 4. CO₂ = 0.04%, N₂ = 20.95%, O₂ = 78.08%

QuestionID: 264330109932
Option1ID: 264330432006
Option2ID: 264330432005
Option3ID: 264330432008
Option4ID: 264330432007
Status: Answered
ChosenOption: 2

Q.26 The Constitution (87th Amendment) Act, 2003 provided for the delimitation of the constituencies on the basis of the census of _____.

- Ans
- ☒ 1. 1991
 - ☒ 2. 1981
 - ☒ 3. 2001
 - ☒ 4. 1971

QuestionID:264330119646
Option1ID:264330468861
Option2ID:264330468860
Option3ID:264330468862
Option4ID:264330468859
Status:Answered
ChosenOption:3

Q.27 Which of the following are NOT antimicrobial drugs? Ans

- ☒ 1. Antacids
- ☒ 2. Disinfectants
- ☒ 3. Antibiotics
- ☒ 4. Antiseptics

QuestionID:264330113345
Option1ID:264330445465
Option2ID:264330445468
Option3ID:264330445466
Option4ID:264330445467
Status:NotAnswered
ChosenOption:--

Q.28 Which of the following protocols is used by email clients to send email to mail servers? Ans ☒

- 1. SMTP
- ☒ 2. TCP/IP
- ☒ 3. IMAP
- ☒ 4. POP3

QuestionID:264330168572
Option1ID:264330661100
Option2ID:264330661102
Option3ID:264330661101
Option4ID:264330661099
Status:Answered
ChosenOption:1

Q.29 Beta-carotene, lycopene, lutein and selenium are examples of:

- Ans
- ☒ 1. anti-coagulants
 - ☒ 2. immunosuppressants
 - ☒ 3. antioxidants
 - ☒ 4. sources of Vitamin C

QuestionID:264330109938

Option1ID:264330432031

Option2ID:264330432032

Option3ID:264330432030

Option4ID:264330432029

Status:NotAnswered

ChosenOption:--

Q.30 रोगमंड

लनहरकराीयजलमागकाहसाहै? Ans

- ☒ 1. रीयजलमाग3
- ☒ 2. रीयजलमाग1
- ☒ 3. रीयजलमाग2
- ☒ 4. रीयजलमाग4

QuestionID:264330113276

Option1ID:264330445191

Option2ID:264330445189

Option3ID:264330445190

Option4ID:264330445192

Status:NotAnswered

ChosenOption:--

Q.31 Which of the following classical dancers won the Padma Shri award in 2022 for the dance form of Kuchipudi?

- Ans
- ☒ 1. Gaddam Padmaja Reddy
 - ☒ 2. Hema Malini
 - ☒ 3. Birju Maharaj
 - ☒ 4. Sujata Mohapatra

QuestionID:26433064808

Option1ID:264330253825

Option2ID:264330253827

Option3ID:264330253824

Option4ID:264330253826

Status:Answered

ChosenOption: 1

Q.32 What is Petrology?

- Ans
- ☒ 1. Science of metals
 - ☒ 2. Science of gases
 - ☒ 3. Science of rocks
 - ☒ 4. Science of minerals

QuestionID: 264330113358

Option1ID: 264330445519

Option2ID: 264330445518

Option3ID: 264330445520

Option4ID: 264330445517

Status: Not Answered

ChosenOption: --

Q.33 According to the Census of India 2011, what was the percentage of Sikh communities in the total population in India?

- Ans
- ☒ 1. 0.4%
 - ☒ 2. 1.7%
 - ☒ 3. 79.8%
 - ☒ 4. 14.2%

QuestionID: 264330157087

Option1ID: 264330615721

Option2ID: 264330615722

Option3ID: 264330615720

Option4ID: 264330615719

Status: Answered

ChosenOption: 2

Q.34 नल खत मसे कौन सा नाक बंद होने (nasal congestion) के लिए मेदार है? Ans

- ☒ 1. हिस्टामिन (Histamine)
- ☒ 2. उपशामक (Tranquilizers)
- ☒ 3. दर्दनाशक (Analgesics)
- ☒ 4. टेट्रासाइक्लिन (Tetracycline)

QuestionID: 264330113344

Option1ID: 264330445461

Option2ID: 264330445462

Option3ID: 264330445463

Option4ID: 264330445464

Status: Answered

ChosenOption: 1

Q.35 Which element was proposed by Glenn T Seaborg in 1955 through the bombardment of a minute amount of a rare, radioactive isotope of Einsteinium with α -particles in a 60-inch cyclotron?

- Ans
- ☒ 1. Neptunium
 - ☒ 2. Mendelevium
 - ☒ 3. Lawrencium
 - ☒ 4. Nobelium

QuestionID:264330141688

Option1ID:264330555073

Option2ID:264330555072

Option3ID:264330555074

Option4ID:264330555071

Status:NotAnswered

ChosenOption:--

Q.36 Which of the following classical dance styles is inscribed on the Gopuram of Chidambaram temple?

- Ans
- ☒ 1. Kathak
 - ☒ 2. Bharatnatyam
 - ☒ 3. Kuchipudi
 - ☒ 4. Mohiniyattam

QuestionID:26433072658

Option1ID:264330284892

Option2ID:264330284894

Option3ID:264330284893

Option4ID:264330284895

Status:NotAnswered

ChosenOption:--

Q.37 How much of global trade is carried out through this sea route? Ans

- ☒ 1. 60%
- ☒ 2. 80%
- ☒ 3. 90%
- ☒ 4. 70%

QuestionID:26433086626

Option1ID:264330340148

Option2ID:264330340146

Option3ID:264330340145

Option4ID:264330340147

Status:Answered

ChosenOption:3

Q.38 As per the Budget 2022 announcement, a _____ income tax will be applied on earnings from virtual digital assets like cryptocurrencies.

- Ans
- ☒ 1. 40%
 - ☒ 2. 30%
 - ☒ 3. 25%
 - ☒ 4. 15%

QuestionID:264330156926
Option1ID:264330615082
Option2ID:264330615079
Option3ID:264330615080
Option4ID:264330615081
Status:NotAnswered
ChosenOption:--

Q.39 Article _____ of the Constitution of India states that the Chief Ministers shall be appointed by the Governor.

- Ans
- ☒ 1. 163
 - ☒ 2. 165
 - ☒ 3. 164
 - ☒ 4. 161

QuestionID:264330130493
Option1ID:264330511084
Option2ID:264330511086
Option3ID:264330511085
Option4ID:264330511083
Status:NotAnswered
ChosenOption:--

Q.40 छूखानकसधरानेकेसंापकमसेएकहू

- ns
- ☒ 1. आगराघराना
 - ☒ 2. लखनऊघराना
 - ☒ 3. मेवातीघराना
 - ☒ 4. भडीबाजारघराना

QuestionID:26433074866
Option1ID:264330293552
Option2ID:264330293553
Option3ID:264330293554
Option4ID:264330293555
Status:Answered
ChosenOption:2

Q.41 The 11th fundamental duty is related to _____.

- Ans
- ☒ 1.environment
 - ☒ 2.culture
 - ☒ 3.health
 - ☒ 4.education

QuestionID: 264330118531

Option1ID: 264330465526

Option2ID: 264330465527

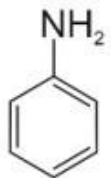
Option3ID: 264330465525

Option4ID: 264330465528

Status: Answered

ChosenOption: 4

Q.42 What is the name of the organic compound in the given figure?



- Ans
- ☒ 1.Benzene
 - ☒ 2.Tropone
 - ☒ 3.Aniline
 - ☒ 4.Cyclohexene

QuestionID: 264330131687

Option1ID: 264330515850

Option2ID: 264330515848

Option3ID: 264330515849

Option4ID: 264330515847

Status: Answered

ChosenOption: 1

Q.43 When was the Indian Association founded?

- Ans
- ☒ 1.1876
 - ☒ 2.1875
 - ☒ 3.1874
 - ☒ 4.1871

QuestionID: 264330109047

Option1ID: 264330428468

Option2ID: 264330428467

Option3ID: 264330428466

Option4ID: 264330428465

Status: NotAnswered

ChosenOption: --

Q.44 In March 2023, which of the following organisations launched Mission 'Har Payment Digital'?

- Ans
- ☒ 1. National Stock Exchange of India Ltd.
 - ☒ 2. Calcutta Stock Exchange Ltd.
 - ☒ 3. Reserve Bank of India
 - ☒ 4. State Bank of India

QuestionID: 264330158455

Option1ID: 264330621181

Option2ID: 264330621182

Option3ID: 264330621180

Option4ID: 264330621179

Status: Answered

ChosenOption: 4

Q.45 The total number of persons awarded under Jeevan Raksha Padak Series of Awards - 2022, which was announced by the President of India on 25th January 2023, stood at _____.

- Ans
- ☒ 1. 43
 - ☒ 2. 33
 - ☒ 3. 63
 - ☒ 4. 53

QuestionID: 264330132573

Option1ID: 264330519388

Option2ID: 264330519387

Option3ID: 264330519390

Option4ID: 264330519389

Status: Not Answered

ChosenOption: --

Q.46 ननलखतमसेकौन-सा एक एंटाकालयु

- डाइपेटाइडमधुरक (वीटनर) है? Ans
- ☒ 1. सैकरीन (Saccharin)
 - ☒ 2. एलटेम (Alitame)
 - ☒ 3. सुलोज़ (Sucralose)
 - ☒ 4. एससफेम (Acesulfame K)

QuestionID: 264330120050

Option1ID: 264330470455

Option2ID: 264330470457

Option3ID: 264330470456

Option4ID: 264330470458

Status: Answered

ChosenOption: 3

Q.47 Which of the following instruments did Sheik Chinna Moulana, a famous instrumentalist from India, play?

- Ans
- ☒ 1. Mridangam
 - ☒ 2. Ghatam
 - ☒ 3. Violin
 - ☒ 4. Nadhaswaram

QuestionID:2643306686
Option1ID:264330261270
Option2ID:264330261268
Option3ID:264330261271
Option4ID:264330261269
Status:NotAnswered
ChosenOption:--

Q.48 Which of the following Articles of the Constitution of India mentions about the abolition of untouchability?

- Ans
- ☒ 1. Article 17
 - ☒ 2. Article 16
 - ☒ 3. Article 21
 - ☒ 4. Article 28

QuestionID:26433086815
Option1ID:264330340903
Option2ID:264330340904
Option3ID:264330340902
Option4ID:264330340901
Status:Answered
ChosenOption: 1

Q.49 As on 1st February 2023, who among the following is the Chairperson of the National Disaster Management Authority (NDMA)?

- Ans
- ☒ 1. Narendra Modi
 - ☒ 2. Droupadi Murmu
 - ☒ 3. Rajnath Singh
 - ☒ 4. Amit Shah

QuestionID:264330132616
Option1ID:264330519560
Option2ID:264330519559
Option3ID:264330519561
Option4ID:264330519562
Status:Answered
ChosenOption:4



Section: General Engineering Mechanical

Q.1 Which of the following is the correct relation for specific speed of turbine?

- Ans
- 1. Specific speed is directly proportional to square of the head under which the turbine is working
 - 2. Specific speed is directly proportional to square root of shaft power
 - 3. Specific speed is directly proportional to shaft power
 - 4. Specific speed is directly proportional to head under which the turbine is working

QuestionID:264330159159

Option1ID:264330623998

Option2ID:264330623996

Option3ID:264330623995

Option4ID:264330623997

Status: Answered

ChosenOption:2

Q.2 The friction experienced by the body when the body tends to move is known as:

- Ans
- 1. sliding friction
 - 2. rolling friction
 - 3. static friction
 - 4. dynamic friction

QuestionID:26433096673

Option1ID:264330379429

Option2ID:264330379430

Option3ID:264330379432

Option4ID:264330379431

Status: Answered

ChosenOption:4

Q.3 There are two horizontal pipes in which water is flowing. If we have to find the pressure difference between these two horizontal pipes using an inverted manometer, and two manometric fluids with specific gravities of 13.5 and 0.9 are available, then which manometric fluid will be appropriate?

- Ans
- ☒ 1. Cannot be predicted
 - ☒ 2. Fluid with the specific gravity of 13.5
 - ☒ 3. Both the fluids can be used
 - ☒ 4. Fluid with the specific gravity of 0.9

QuestionID: 264330100873

Option1ID: 264330396040

Option2ID: 264330396038

Option3ID: 264330396039

Option4ID: 264330396037

Status: Answered

ChosenOption: 2

Q.4 The speed ratio of a compound gear train is defined as _____.

- Ans
- ☒ 1. $\frac{\text{Speed of last follower}}{\text{Speed of first driver}}$
 - ☒ 2. $\frac{\text{Product of number of teeth on driven shafts}}{\text{Product of number of teeth on driver shafts}}$
 - ☒ 3. $\frac{\text{Product of speed of followers}}{\text{Product of speed of drivers}}$
 - ☒ 4. $\frac{\text{Product of number of teeth on driver shafts}}{\text{Product of number of teeth on driven shafts}}$

QuestionID: 26433099837

Option1ID: 264330391946

Option2ID: 264330391947

Option3ID: 264330391948

Option4ID: 264330391945

Status: Answered

ChosenOption: 2

Q.5 For a two-stage reciprocating air compressor, the section pressure is 1.6 bar and the delivery pressure is 40 bar. What is the value of the ideal intercooler pressure (in bar)?

- Ans
- ☒ 1. 8
 - ☒ 2. 9
 - ☒ 3. 4.56
 - ☒ 4. 20.8

QuestionID: 264330158702

Option1ID: 264330622168

Option2ID: 264330622169

Option3ID: 264330622167

Option4ID: 264330622170

Status: Answered

ChosenOption: 1

Q.6 The expansion process in a vapour compression refrigeration cycle is a/an _____.

- Ans
- ☒ 1. constant volume process
 - ☒ 2. isentropic process
 - ☒ 3. reversible isothermal process
 - ☒ 4. isenthalpic process

QuestionID:264330157260

Option1ID:264330616406

Option2ID:264330616403

Option3ID:264330616405

Option4ID:264330616404

Status:Answered

ChosenOption:4

Q.7 A cyclic heat engine of thermal efficiency 80% does 60 kJ of work per cycle. The heat rejected per cycle will be equal to _____.

- Ans
- ☒ 1. 75 kJ
 - ☒ 2. 20 kJ
 - ☒ 3. 15 kJ
 - ☒ 4. 48 kJ

QuestionID:264330157533

Option1ID:264330617491

Option2ID:264330617494

Option3ID:264330617492

Option4ID:264330617493

Status:Answered

ChosenOption:3

Q.8 The highest temperature during the cycle, in a vapour compression refrigeration system, occurs after:

- Ans
- ☒ 1. compression
 - ☒ 2. condensation
 - ☒ 3. evaporation
 - ☒ 4. expansion

QuestionID:264330157199

Option1ID:264330616159

Option2ID:264330616160

Option3ID:264330616162

Option4ID:264330616161

Status:Answered

ChosenOption:1

Q.9 The speed ratio for an impulse turbine can be taken as [Join @Truly_Engineers on Telegram](#)

- Ans
- ☒ 1.0.6
 - ☒ 2.0.75
 - ☒ 3.0.45
 - ☒ 4.0.3

QuestionID:26433099831
 Option1ID:264330391921
 Option2ID:264330391922
 Option3ID:264330391923
 Option4ID:264330391924
 Status:Answered
 ChosenOption:3

Q.10 For the same compression ratio, which of the following processes will require the least compression work?

- Ans
- ☒ 1. Isothermal process
 - ☒ 2. Adiabatic process
 - ☒ 3. Isochoric process
 - ☒ 4. Polytropic process

QuestionID:26433096771
 Option1ID:264330379824
 Option2ID:264330379822
 Option3ID:264330379821
 Option4ID:264330379823
 Status:Answered
 ChosenOption:1

Q.11 Which of the following statements is true regarding vapour-compression refrigeration system (VCRS)?

- Ans
- ☒ 1. Power consumption of VCRS with air-cooled condenser is more as compared to that of VCRS with water-cooled condenser.
 - ☒ 2. VCRS with both water-cooled and air-cooled condenser will require same power for same refrigeration effect.
 - ☒ 3. Power consumption of VCRS with air-cooled condenser is less as compared to that of VCRS with water-cooled condenser.
 - ☒ 4. Power consumption of VCRS with air-cooled condenser may be lesser or greater than that of VCRS with water-cooled condenser.

QuestionID:26433096806
 Option1ID:264330379961
 Option2ID:264330379963
 Option3ID:264330379962
 Option4ID:264330379964
 Status:Answered
 ChosenOption:3

Q. 12 The value of enthalpy of vaporisation approaches zero on the saturation curve of water on a temperature-entropy diagram:

- Ans
- ☐ 1. above critical point
 - ☐ 2. below critical point
 - ☐ 3. never approaches zero
 - ☒ 4. at critical point

QuestionID:26433096537
Option1ID:264330378887
Option2ID:264330378886
Option3ID:264330378888
Option4ID:264330378885

Status: Answered
ChosenOption: 4

Q. 13 In air-conditioning of aeroplanes, using air as a refrigerant, the cycle used is:

- Ans
- ☐ 1. reversed Otto cycle
 - ☐ 2. reversed Joule cycle
 - ☒ 3. reversed Brayton cycle
 - ☐ 4. reversed Carnot cycle

QuestionID:264330157195
Option1ID:264330616146
Option2ID:264330616144
Option3ID:264330616145
Option4ID:264330616143

Status: Answered
ChosenOption: 3

Q. 14 According to the American Society of Mechanical Engineers (ASME), the evaporation of 15.63 kg of water at 100°C per hour from 100°C feed water in a steam boiler is known as _____.

- Ans
- ☐ 1. boiler efficiency
 - ☐ 2. equivalent evaporation
 - ☒ 3. boiler horsepower
 - ☐ 4. actual evaporation

QuestionID:264330159960
Option1ID:264330627189
Option2ID:264330627188
Option3ID:264330627190
Option4ID:264330627187

Status: Answered
ChosenOption: 3

Q.15 If the specific weight of a fluid is 19620 N/m^3 , then what will be its specific volume in m^3/kg ? (Take $g = 9.81 \text{ m/sec}^2$)

- Ans
- ☒ 1. 1.5×10^{-5}
 - ☒ 2. $2.0.5 \times 10^{-3}$
 - ☒ 3. $3.0.5 \times 10^{-5}$
 - ☒ 4. 5×10^{-3}

QuestionID: 26433096274
 Option1ID: 264330377846
 Option2ID: 264330377847
 Option3ID: 264330377848
 Option4ID: 264330377845
 Status: Answered
 ChosenOption: 2

Q.16 The term $\rho V^2/2$ used in Bernoulli's theorem is basically:

- Ans
- ☒ 1. stagnation pressure
 - ☒ 2. dynamic pressure
 - ☒ 3. static pressure
 - ☒ 4. hydrostatic pressure

QuestionID: 264330159214
 Option1ID: 264330624218
 Option2ID: 264330624216
 Option3ID: 264330624215
 Option4ID: 264330624217
 Status: Answered
 ChosenOption: 2

Q.17 Match the following.

Halocarbon Refrigerants	Examples
1. Halons	a. R-32
2. CFCs	b. R-22
3. HFCs	c. R-11
4. HCFCs	d. R-10

- Ans
- ☒ 1. 1-d; 2-c; 3-a; 4-b
 - ☒ 2. 1-d; 2-a; 3-c; 4-b
 - ☒ 3. 1-d; 2-c; 3-b; 4-a
 - ☒ 4. 1-a; 2-c; 3-d; 4-b

QuestionID: 26433099503
 Option1ID: 264330390625
 Option2ID: 264330390626
 Option3ID: 264330390627
 Option4ID: 264330390628
 Status: Answered
 ChosenOption: 1

Q.18 Generation of steam in a boiler is an example of an _____.

- Ans
- ☒ 1. isothermal process
 - ☒ 2. adiabatic process
 - ☒ 3. isochoric process
 - ☒ 4. isobaric process

QuestionID:26433095603

Option1ID:264330375193

Option2ID:264330375194

Option3ID:264330375195

Option4ID:264330375196

Status: Answered

ChosenOption:4

Q.19 A Carnot cycle operates between two temperatures T_1 and T_2 . The efficiency of the cycle is given by $\eta = (T_1 - T_2)/T_1$. Which of the following statements is correct?

- Ans
- ☒ 1. The efficiency of the Carnot cycle is always less than that of any other heat engine operating between the same two temperatures.
 - ☒ 2. The efficiency of the Carnot cycle is always equal to that of any other heat engine operating between the same two temperatures.
 - ☒ 3. The efficiency of the Carnot cycle is always greater than that of any other heat engine operating between the same two temperatures.
 - ☒ 4. The efficiency of the Carnot cycle depends on the working substance used.

QuestionID:264330157928

Option1ID:264330619073

Option2ID:264330619072

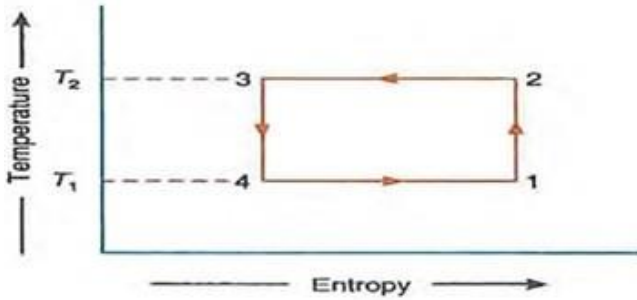
Option3ID:264330619071

Option4ID:264330619074

Status: Answered

ChosenOption:3

Q.20 The following Temperature-Entropy diagram represents a Refrigeration system operating on the reversed Carnot cycle. The higher temperature of the refrigerant in the system is 35°C and the lower temperature is -15°C . What will be the C.O.P?



Ans ☒ 1.5.16

☒ 2.4.82

☒ 3.3.45

☒ 4.2.75

QuestionID:264330160034

Option1ID:264330627483

Option2ID:264330627484

Option3ID:264330627485

Option4ID:264330627486

Status:Answered

ChosenOption:1

Q.21 The correct relation between the modulus of elasticity (E) and modulus of rigidity (G) is: Given, μ = Poisson's ratio.

Ans ☒ 1. $G=2E(1+\mu)$ ☒

2. $E=4G(1+\mu)$

☒ 3. $E=2G(1+\mu)$

☒ 4. $G=4E(1+\mu)$

QuestionID:26433099946

Option1ID:264330392359

Option2ID:264330392358

Option3ID:264330392360

Option4ID:264330392357

Status:Answered

ChosenOption:3

Q.22 An air standard diesel cycle working with a compression ratio of 13 and cutoff takes place at 5% of the stroke volume. The value of cutoff ratio will be

- Ans
- ☒ 1.2.3
 - ☒ 2.1.9
 - ☒ 3.1.3
 - ☒ 4.1.6

QuestionID:264330100536

Option1ID:264330394691

Option2ID:264330394690

Option3ID:264330394692

Option4ID:264330394689

Status:Answered

ChosenOption:4

Q.23 If a turbine is working under different heads, the behaviour of the turbine can be easily determined from the values of _____.

- Ans
- ☒ 1.blade angles
 - ☒ 2.unit quantities
 - ☒ 3.number of vanes
 - ☒ 4.size of runner

QuestionID:264330159160

Option1ID:264330623999

Option2ID:264330624002

Option3ID:264330624001

Option4ID:264330624000

Status:Answered

ChosenOption:2

Q.24 In the shaping process, the cutting tool moves _____.

- Ans
- ☒ 1.in a circular motion
 - ☒ 2.in a parabolic motion
 - ☒ 3.in a straight line
 - ☒ 4.in an elliptical motion

QuestionID:264330157941

Option1ID:264330619125

Option2ID:264330619123

Option3ID:264330619126

Option4ID:264330619124

Status:Answered

ChosenOption:3

Q.25 The cyclic integral of Q/T for a reversible cycle is equal to zero. This statement is known as _____.

- Ans
- ☒ 1. Clausius theorem
 - ☐ 2. Carnot theorem
 - ☐ 3. Rankine theorem
 - ☐ 4. the principle of Carathéodory

QuestionID: 264330157560
 Option1ID: 264330617600
 Option2ID: 264330617599
 Option3ID: 264330617601
 Option4ID: 264330617602

Status: Answered
 ChosenOption: 1

Q.26 Select the correct statement of Lami's theorem.

- Ans
- ☐ 1. If two forces are in equilibrium, then each force is directly proportional to sine of the angle between them.
 - ☐ 2. If three forces are not in equilibrium, then each force is inversely proportional to sine of the angle between the other two forces.
 - ☒ 3. If three forces acting on a body are said to be in equilibrium, then each force is directly dependent on sine of the angle between the other two forces.
 - ☐ 4. If three forces are non-coplanar, then each force is directly dependent on sine of the angle between the other two forces.

QuestionID: 264330162519
 Option1ID: 264330637403
 Option2ID: 264330637404
 Option3ID: 264330637406
 Option4ID: 264330637405

Status: Answered
 ChosenOption: 3

Q.27 Which of the following milling operations is used to produce a flat surface parallel to the axis of rotation of the cutter?

- Ans
- ☐ 1. End milling
 - ☐ 2. Face milling
 - ☒ 3. Plain milling
 - ☐ 4. Profile milling

QuestionID: 264330157946
 Option1ID: 264330619144
 Option2ID: 264330619143
 Option3ID: 264330619145
 Option4ID: 264330619146

Status: Answered
 ChosenOption: 3

Q.28 The pressure responsive element in the Bourdon tube pressure gauge is made of _____.

- Ans ☒ 1. bronze
- ☒ 2. Inconel
- ☒ 3. cast iron
- ☒ 4. aluminium

QuestionID:264330100870

Option1ID:264330396027

Option2ID:264330396028

Option3ID:264330396025

Option4ID:264330396026

Status:Answered

ChosenOption:2

Q.29 Which impellers are more likely to be clogged if stringy material or solids are pumped? Ans ☒

1. Closed impeller
- ☒ 2. Cannot be predicted
- ☒ 3. Semi-open impeller
- ☒ 4. Open impeller

QuestionID:26433096735

Option1ID:264330379679

Option2ID:264330379680

Option3ID:264330379677

Option4ID:264330379678

Status:Answered

ChosenOption:4

Q.30 What is the function of the transfer port in the engine? Ans

- ☒ 1. It is the port through which the engine gets the fuel.
- ☒ 2. It is the port through which scavenging of the gas takes place.
- ☒ 3. It is used to transfer unburnt fuel to the exhaust port.
- ☒ 4. It is used to move charge from the crankcase to the cylinder head portion.

QuestionID:264330158736

Option1ID:264330622303

Option2ID:264330622304

Option3ID:264330622306

Option4ID:264330622305

Status:Answered

ChosenOption:4

Q.31 The point at which all the three phases - solid, liquid, and vapour co-exist in equilibrium in a P-T diagram is known as _____.

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

QuestionID:26433095597
Option1ID:264330375172
Option2ID:264330375170
Option3ID:264330375169
Option4ID:264330375171

Status: Answered
ChosenOption: 2

Q.32 Which of the following machining operations is NOT related to turning? Ans

- ☒ 1. External threading
- ☒ 2. Shaping
- ☒ 3. Boring
- ☒ 4. Facing

QuestionID:264330157547
Option1ID:264330617549
Option2ID:264330617550
Option3ID:264330617548
Option4ID:264330617547

Status: Answered
ChosenOption: 3

Q.33 For hydraulic turbines, the ratio of overall efficiency and mechanical efficiency is called _____.

- Ans
- ☒ 1. frictional power
 - ☒ 2. hydraulic efficiency
 - ☒ 3. volumetric efficiency
 - ☒ 4. cannot be predicted

QuestionID:26433096835
Option1ID:264330380079
Option2ID:264330380077
Option3ID:264330380078
Option4ID:264330380080

Status: Answered
ChosenOption: 2

Q.34 The Molten metal is used in _____ process

- Ans
- ☒ 1. Deep Drawing
 - ☒ 2. Machining
 - ☒ 3. Forging
 - ☒ 4. Casting

QuestionID:264330100607

Option1ID:264330394975

Option2ID:264330394973

Option3ID:264330394976

Option4ID:264330394974

Status:Answered

ChosenOption:4

Q.35 Choose the correct mathematical relation of absolute pressure. Ans

- ☒ 1. $P_{abs} = P_{atm} + P_{gauge}$
- ☒ 2. $P_{abs} = P_{atm} / P_{gauge}$
- ☒ 3. $P_{abs} = P_{atm} - P_{gauge}$
- ☒ 4. $P_{abs} = P_{atm} + 2P_{gauge}$

QuestionID:264330159146

Option1ID:264330623943

Option2ID:264330623945

Option3ID:264330623944

Option4ID:264330623946

Status:Answered

ChosenOption:1

Q.36 The property of tool material to retain its hardness at elevated temperature is known as: Ans

- ☒ 1. Plasticity
- ☒ 2. Elasticity
- ☒ 3. Toughness
- ☒ 4. Red hardness

QuestionID:264330100618

Option1ID:264330395020

Option2ID:264330395019

Option3ID:264330395018

Option4ID:264330395017

Status:Answered

ChosenOption:4

Q.37 A piezometer is connected to a point in a pipe to measure the pressure of water flowing through it. If the piezometer reads 0.4 m, what will be the gauge pressure at that point? Take atmospheric pressure = 101325 pascals and $g = 10 \text{ m/s}^2$.

- Ans
- ☒ 1. 97325 pascals
 - ☒ 2. 40 kilopascals
 - ☒ 3. 4000 pascals
 - ☒ 4. 105325 pascals

QuestionID: 264330100875
 Option1ID: 264330396047
 Option2ID: 264330396048
 Option3ID: 264330396046
 Option4ID: 264330396045

Status: Answered

ChosenOption: 3

Q.38 The dimensional formula of specific gravity is given by:

- Ans
- ☒ 1. $M^0 L^0 T^0$
 - ☒ 2. $M^2 L^{-3} T^0$
 - ☒ 3. $M^1 L^{-3} T^{-2}$
 - ☒ 4. $M^1 L^{-3} T^0$

QuestionID: 264330159132
 Option1ID: 264330623887
 Option2ID: 264330623890
 Option3ID: 264330623888
 Option4ID: 264330623889

Status: Answered

ChosenOption: 1

Q.39 What is the hydraulic radius for a circular pipe running full? Ans

- ☒ 1. 0.75d
- ☒ 2. 0.25d
- ☒ 3. d
- ☒ 4. 0.5d

QuestionID: 26433099966
 Option1ID: 264330392439
 Option2ID: 264330392437
 Option3ID: 264330392440
 Option4ID: 264330392438

Status: Answered

ChosenOption: 4

Q.40 The mass of water evaporated per unit mass of fuel burnt is termed as _____ steam boilers.

- Ans
- ☐ 1. boiler efficiency of
 - ☐ 2. equivalent evaporation in
 - ☒ 3. actual evaporation in
 - ☐ 4. boiler performance of

QuestionID:264330159956
Option1ID:264330627173
Option2ID:264330627172
Option3ID:264330627171
Option4ID:264330627174

Status:Answered
ChosenOption:2

Q.41 Which of the following statements is true for a throttling process? Ans

- ☐ 1. It is an isothermal process.
- ☐ 2. It is an isentropic process.
- ☒ 3. It is a constant enthalpy process.
- ☐ 4. It is a reversible process.

QuestionID:26433096753
Option1ID:264330379752
Option2ID:264330379751
Option3ID:264330379750
Option4ID:264330379749

Status:Answered
ChosenOption:3

Q.42 A heat engine operates between a source at 600 K and a sink at 300 K. What is the maximum possible efficiency of the engine according to the Kelvin-Planck statement of the second law of thermodynamics?

- Ans
- ☐ 1. 33.3%
 - ☐ 2. 67%
 - ☐ 3. 25%
 - ☒ 4. 50%

QuestionID:264330157935
Option1ID:264330619100
Option2ID:264330619102
Option3ID:264330619099
Option4ID:264330619101

Status:Answered
ChosenOption:4

Q.43 The air pre-heater increases the temperature of _____ before it/they enter(s) the furnace.

- Ans
- ☒ 1. fuel
 - ☒ 2. flue gases
 - ☒ 3. feedwater
 - ☒ 4. air

QuestionID:264330159936

Option1ID:264330627093

Option2ID:264330627094

Option3ID:264330627092

Option4ID:264330627091

Status:Answered

ChosenOption:4

Q.44 The position of centre of pressure depends on which of the following? Ans

- ☒ 1. Velocity of liquid
- ☒ 2. Weight of the object immersed in liquid
- ☒ 3. Surface tension of fluid
- ☒ 4. Location of object from the free surface

QuestionID:264330159149

Option1ID:264330623957

Option2ID:264330623956

Option3ID:264330623955

Option4ID:264330623958

Status:Answered

ChosenOption:4

Q.45 Which of the following statements is INCORRECT?

- Ans
- ☒ 1. The value of dryness fraction is 1 for saturated steam condition.
 - ☒ 2. The value of dryness fraction is 0 for saturated water condition.
 - ☒ 3. The value of dryness fraction always lies between 0 and 1.
 - ☒ 4. The value of dryness fraction is greater than 1 for superheated steam condition.

QuestionID:26433099977

Option1ID:264330392481

Option2ID:264330392482

Option3ID:264330392484

Option4ID:264330392483

Status:Answered

ChosenOption:4

Q.46 A seamless pipe having a diameter of 600 mm and thickness of 9 mm, contains the fluid under a pressure of 4 MPa, find the longitudinal stress developed in the pipe.

- Ans
- ☐ 1.77.7 Mpa
 - ☐ 2.88.8 Mpa
 - ☐ 3.133.3 Mpa
 - ☒ 4.66.6 Mpa

QuestionID:26433096685
Option1ID:264330379479
Option2ID:264330379480
Option3ID:264330379478
Option4ID:264330379477

Status:Answered
ChosenOption:4

Q.47 In an ammonia vapour compression system, the pressure in the evaporator is 2 bar. Ammonia at exit is 0.85 dry and at entry its dryness fraction is 0.19. During compression, the work done per kg of ammonia is 150 kJ. The latent heat and specific volume at 2 bar are 1325 kJ/kg and 0.58 m³/kg, respectively. What will be its C.O.P?

- Ans
- ☒ 1.5.83
 - ☐ 2.3.82
 - ☐ 3.6.74
 - ☐ 4.4.34

QuestionID:264330157200
Option1ID:264330616166
Option2ID:264330616163
Option3ID:264330616165
Option4ID:264330616164

Status:Answered
ChosenOption:3

Q.48 Which thermodynamic property of steam does NOT change in a throttling calorimeter? Ans ☐

- 1. Entropy
- ☒ 2. Enthalpy
- ☐ 3. Temperature
- ☐ 4. Pressure

QuestionID:26433095600
Option1ID:264330375181
Option2ID:264330375183
Option3ID:264330375184
Option4ID:264330375182

Status:Answered
ChosenOption:2

Q.49 Choose the correct option related to lathe turning operation. Ans

- ☐ 1. Tool will rotate
- ☐ 2. Both tool and workpiece will not rotate
- ☐ 3. Both tool and workpiece will rotate
- ☒ 4. Workpiece will rotate

QuestionID:264330100629

Option1ID:264330395061

Option2ID:264330395064

Option3ID:264330395063

Option4ID:264330395062

Status:Answered

ChosenOption:4

Q.50 Francis turbine is an example of:

- Ans
- ☐ 1. radial flow turbine
 - ☐ 2. axial flow turbine
 - ☒ 3. mixed flow turbine
 - ☐ 4. impulse turbine

QuestionID:264330159167

Option1ID:264330624028

Option2ID:264330624029

Option3ID:264330624030

Option4ID:264330624027

Status:Answered

ChosenOption:1

Q.51 The behaviour of a material at different stages of loading is represented by a diagram called the _____ diagram.

- Ans
- ☒ 1. stress strain
 - ☐ 2. hysteresis
 - ☐ 3. circumferential stress
 - ☐ 4. iron carbon

QuestionID:26433099948

Option1ID:264330392366

Option2ID:264330392365

Option3ID:264330392368

Option4ID:264330392367

Status:Answered

ChosenOption:4

Q.52 Due to the refinement of grains, mechanical properties such as toughness, ductility, elongation and reduction in the area are improved in _____ process

- Ans
- ☒ 1. Joining
 - ☒ 2. Cold working
 - ☒ 3. Hot working
 - ☒ 4. Forming

QuestionID: 264330100610
Option1ID: 264330394987
Option2ID: 264330394986
Option3ID: 264330394985
Option4ID: 264330394988
Status: Answered
ChosenOption: 3

Q.53 The enthalpy of water is considered as 'zero' at _____.

- Ans
- ☒ 1. 37°C
 - ☒ 2. 100°C
 - ☒ 3. 0.01°C
 - ☒ 4. 4°C

QuestionID: 26433099980
Option1ID: 264330392496
Option2ID: 264330392495
Option3ID: 264330392493
Option4ID: 264330392494
Status: Answered
ChosenOption: 2

Q.54 Natural draft cooling towers are also known as _____.

- Ans
- ☒ 1. mechanical draft cooling towers
 - ☒ 2. artificial cooling towers
 - ☒ 3. atmospheric cooling towers
 - ☒ 4. automatic spray cooling towers

QuestionID: 26433096779
Option1ID: 264330379855
Option2ID: 264330379853
Option3ID: 264330379854
Option4ID: 264330379856
Status: Answered
ChosenOption: 3

Q.55 In an I.C. engine, when the primary circuit in the coil ignition system breaks, the voltage produced across the secondary terminal is in the range of _____.

- Ans
- ☒ 1. 80V to 120V
 - ☒ 2. 8000V to 12,000V
 - ☒ 3. 800V to 1200V
 - ☒ 4. 2000V to 5000V

QuestionID: 264330158720
Option1ID: 264330622239
Option2ID: 264330622241
Option3ID: 264330622240
Option4ID: 264330622242
Status: Answered
ChosenOption: 2

Q.56 If the mechanical efficiency and hydraulic efficiency of a turbine are 60% and 70%, respectively, then what will be the overall efficiency of the turbine?

- Ans
- ☒ 1. 70%
 - ☒ 2. 42%
 - ☒ 3. 60%
 - ☒ 4. 65%

QuestionID: 264330159267
Option1ID: 264330624429
Option2ID: 264330624427
Option3ID: 264330624428
Option4ID: 264330624430
Status: Answered
ChosenOption: 2

Q.57 A centrifugal pump is running at the speed of 1000 rpm against a head of 40m. If its speed is changed to 3000 rpm, then it will work against a head of:

- Ans
- ☒ 1. 120m
 - ☒ 2. 80m
 - ☒ 3. 360m
 - ☒ 4. 40m

QuestionID: 264330159206
Option1ID: 264330624185
Option2ID: 264330624184
Option3ID: 264330624186
Option4ID: 264330624183
Status: Answered
ChosenOption: 3

Q.58 Which of the following statements is correct for compressibility? Ans ✓

1. Compressibility is reciprocal of bulk modulus

✗ 2. Compressibility is square of bulk modulus

✗ 3. Compressibility is square root of bulk modulus

✗ 4. Compressibility is equal to bulk modulus

QuestionID: 264330159128

Option1ID: 264330623872

Option2ID: 264330623871

Option3ID: 264330623874

Option4ID: 264330623873

Status: Answered

ChosenOption: 1

Q.59 Which of the following is a water-tube boiler? Ans

✗ 1. Cornish boiler

✗ 2. Lancashire boiler

✗ 3. Cochran boiler

✓ 4. Babcock & Wilcox boiler

QuestionID: 264330159931

Option1ID: 264330627072

Option2ID: 264330627073

Option3ID: 264330627071

Option4ID: 264330627074

Status: Answered

ChosenOption: 4

Q.60 What will be the absolute pressure (approximately) at a point 3m below the free surface of a liquid having a density of 1530 kg/m^3 , if the atmospheric pressure is equivalent to 750mm of mercury? (The specific gravity of mercury is 13.6 and density of water is 1000 kg/m^3 , $g = 9.81 \text{ m/sec}^2$)

Ans ✗ 1. 1,00,250 N/m²

✗ 2. 95,648 N/m²

✓ 3. 1,45,090 N/m²

✗ 4. 78,560 N/m²

QuestionID: 264330159252

Option1ID: 264330624367

Option2ID: 264330624370

Option3ID: 264330624369

Option4ID: 264330624368

Status: Answered

ChosenOption: 3

Q.61 The pressure at the inlet of a refrigerant compressor is called _____.

- Ans
- ☒ 1. back pressure
 - ☒ 2. critical pressure
 - ☒ 3. suction pressure
 - ☒ 4. discharge pressure

QuestionID: 264330157187

Option1ID: 264330616114

Option2ID: 264330616113

Option3ID: 264330616111

Option4ID: 264330616112

Status: Answered

ChosenOption: 1

Q.62 If Q_1 is the heat rejected to the source and Q_2 is the heat extracted from the sink, the coefficient of performance (COP) of a heat pump is given by _____.

- Ans
- ☒ 1. $\frac{Q_1}{Q_1 - Q_2}$
 - ☒ 2. $\frac{Q_1 - Q_2}{Q_1}$
 - ☒ 3. $\frac{Q_2}{Q_1 - Q_2}$
 - ☒ 4. $\frac{Q_1 - Q_2}{Q_2}$

QuestionID: 26433099995

Option1ID: 264330392554

Option2ID: 264330392555

Option3ID: 264330392553

Option4ID: 264330392556

Status: Answered

ChosenOption: 1

Q.63 The function of condenser in refrigeration cooling system is _____.

- Ans
- ☒ 1. to reject heat out of the system
 - ☒ 2. to convert liquid refrigerant into vapour refrigerant
 - ☒ 3. to give heat into the system
 - ☒ 4. to give external work to the system

QuestionID: 26433096805

Option1ID: 264330379958

Option2ID: 264330379960

Option3ID: 264330379957

Option4ID: 264330379959

Status: Answered

ChosenOption: 1

Q.64 For internal laminar flow, the variation of shear stress in the radial direction is:

- Ans
- ☒ 1. exponential
 - ☒ 2. linear
 - ☒ 3. hyperbolic
 - ☒ 4. parabolic

QuestionID: 264330159099

Option1ID: 264330623758

Option2ID: 264330623757

Option3ID: 264330623756

Option4ID: 264330623755

Status: Answered

ChosenOption: 2

Q.65 An engine is working with temperature limits of 29°C and 229°C . It receives 1000 kW and rejects 429 kW of heat. Possible cycle executed by the engine is

- Ans
- ☒ 1. Impossible cycle
 - ☒ 2. Reversible cycle
 - ☒ 3. Carnot cycle
 - ☒ 4. Irreversible cycle

QuestionID: 264330100573

Option1ID: 264330394839

Option2ID: 264330394837

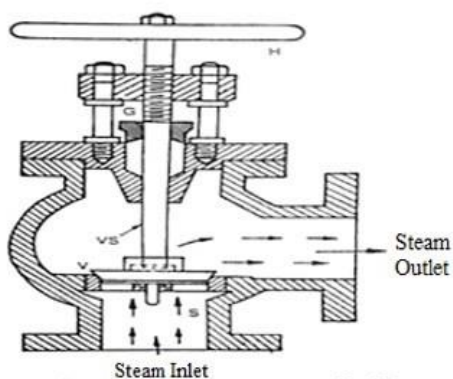
Option3ID: 264330394838

Option4ID: 264330394840

Status: Answered

ChosenOption: 1

Q.66 Following figure shows which of the following parts of a steam generator?



Ans ☒ 1. Steam stop valve

☒ 2. Feed check valve

☒ 3. Blow-off cock

☒ 4. Safety valve

QuestionID: 264330100124

Option1ID: 264330393071

Option2ID: 264330393070

Option3ID: 264330393072

Option4ID: 264330393069

Status: Answered

ChosenOption: 1

Q.67 The value of atmospheric pressure in bar is _____.

Ans ☒ 1. 1.01325

☒ 2. 1.5643

☒ 3. 2.01324

☒ 4. 0.9874

QuestionID: 264330159147

Option1ID: 264330623949

Option2ID: 264330623948

Option3ID: 264330623947

Option4ID: 264330623950

Status: Answered

ChosenOption: 1

Q.68 The flow through a capillary tube is an example of _____ flow.

Ans ☒ 1. laminar

☒ 2. transition

☒ 3. compressible

☒ 4. turbulent

QuestionID: 264330159125

Option1ID: 264330623859

Option2ID: 264330623861

Option3ID: 264330623862

Option4ID: 264330623860

Status: Answered

ChosenOption: 1

Q.69 Find the enthalpy of 1 kg of dry and saturated steam at 10 bar if sensible heat at 10 bar is 762.8 kJ/kg and latent heat of evaporation at 10 bar is 2015.3 kJ/kg.

Ans

☒ 1. 762.8 kJ

☒ 2. 2778.1 kJ

☒ 3. 1252.5 kJ

☒ 4. 2015.3 kJ

QuestionID:26433095596
Option1ID:264330375167
Option2ID:264330375166
Option3ID:264330375165
Option4ID:264330375168
Status:NotAnswered

ChosenOption:--

Q.70 The ratio of the energy received by the steam to the energy supplied by the fuel to produce steam in a steam boiler is known as _____.

Ans

☒ 1. boiler efficiency

☒ 2. equivalent evaporation

☒ 3. actual evaporation

☒ 4. boiler horsepower

QuestionID:264330159958
Option1ID:264330627181
Option2ID:264330627180
Option3ID:264330627179
Option4ID:264330627182
Status:Answered

ChosenOption:1

Q.71 Which of the following is the correct statement relating to the centre of pressure on an immersed surface?

Ans

☒ 1. It is the point where the normal pressure acts.

☒ 2. It is the point where the resultant pressure acts.

☒ 3. It is the point where the weight of the body acts.

☒ 4. It is the point where the weight of the body and resultant pressure acts.

QuestionID:264330159148
Option1ID:264330623951
Option2ID:264330623954
Option3ID:264330623952
Option4ID:264330623953
Status:Answered

ChosenOption:2

Q.72 Vapour pressure is primarily associated with which phenomenon? Ans

- ☒ 1. Surging
- ☒ 2. Water hammering
- ☒ 3. Cavitation
- ☒ 4. Capillarity

QuestionID:264330159245

Option1ID:264330624340

Option2ID:264330624339

Option3ID:264330624342

Option4ID:264330624341

Status:Answered

ChosenOption:3

Q.73 Pressure head of a fluid represents:

- Ans
- ☒ 1. energy per unit volume
 - ☒ 2. energy per unit mass
 - ☒ 3. energy per unit weight
 - ☒ 4. energy per unit length

QuestionID:26433096575

Option1ID:264330379038

Option2ID:264330379039

Option3ID:264330379037

Option4ID:264330379040

Status:Answered

ChosenOption:1

Q.74 In a steam boiler, the actual evaporation is 8 kg of steam per kg of fuel burnt. The heat supplied per kg of water is 2500 kJ/kg. Higher calorific value of fuel is 25,000 kJ/kg. What is the boiler efficiency?

- Ans
- ☒ 1. 0.75
 - ☒ 2. 0.25
 - ☒ 3. 0.80
 - ☒ 4. 0.10

QuestionID:264330159959

Option1ID:264330627183

Option2ID:264330627185

Option3ID:264330627184

Option4ID:264330627186

Status:Answered

ChosenOption:3

Q.75 The energy loss caused by a sudden enlargement is expressed by:

Ans

✓ 1. $\left(\frac{V_1 - V_2}{\sqrt{2g}} \right)^2$

2. $\left(\frac{V_1 - V_2}{g} \right)^2$

3. $\left(\frac{V_1 - V_2}{2} \right)^2$

4. $\left(\frac{V_1 - V_2}{2g} \right)^2$

QuestionID: 26433095670

Option1ID: 264330375461

Option2ID: 264330375463

Option3ID: 264330375464

Option4ID: 264330375462

Status: Answered

ChosenOption: 1

Q.76 In a mechanical draught system, draught is produced by a _____.

Ans ✗ 1. chain grate stoker

✗ 2. chimney

✓ 3. blower

✗ 4. pump

QuestionID: 264330100119

Option1ID: 264330393049

Option2ID: 264330393052

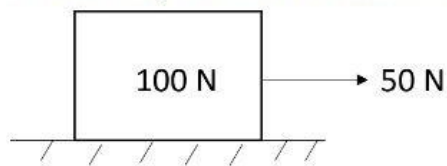
Option3ID: 264330393050

Option4ID: 264330393051

Status: Answered

ChosenOption: 3

- Q.77 A body of weight 100 N is lying on a rough horizontal surface, and the horizontal force of 50 N is applied on the body as shown in the figure, which is just enough to move the body. What will be the coefficient of friction?



- Ans ☒ 1.0.5
☒ 2.0.6
☒ 3.0.3
☒ 4.0.4

QuestionID:26433096668
 Option1ID:264330379410
 Option2ID:264330379412
 Option3ID:264330379409
 Option4ID:264330379411
 Status:Answered

ChosenOption:1

- Q.78 The frictional resistance in a turbulent flow is independent of the _____.

- Ans ☒ 1. surface roughness
☒ 2. pressure
☒ 3. density of fluid
☒ 4. velocity of fluid

QuestionID:264330100881
 Option1ID:264330396071
 Option2ID:264330396072
 Option3ID:264330396070
 Option4ID:264330396069
 Status:Answered

ChosenOption:2

- Q.79 In the thermodynamics system, the primary driving force for mass transfer is _____.

- Ans ☒ 1. concentration difference
☒ 2. pressure difference
☒ 3. mass difference
☒ 4. temperature difference

QuestionID:264330157561
 Option1ID:264330617605
 Option2ID:264330617603
 Option3ID:264330617604
 Option4ID:264330617606
 Status:Answered

ChosenOption:3

Q.80 Which of the following statements is correct about a working engine?

Ans



1. Operation of the flywheel is continuous, whereas operation of the governor is more or less intermittent.

☒ 2. Operation of both the flywheel and the governor is intermittent.

☒ 3. Operation of both the flywheel and the governor is continuous.



4. Operation of the governor is continuous, whereas operation of the flywheel is more or less intermittent.

QuestionID:26433099799

Option1ID:264330391793

Option2ID:264330391795

Option3ID:264330391794

Option4ID:264330391796

Status: Answered

ChosenOption: 1

Q.81 Under steady state operation of a cone clutch, if semi-cone angle (α) decreases then _____.

Ans

☒ 1. the torque produced by clutch decreases

☒ 2. does not affect the axial force

☒ 3. the torque produced by clutch increases

☒ 4. the axial force increases

QuestionID:26433091064

Option1ID:264330357665

Option2ID:264330357668

Option3ID:264330357666

Option4ID:264330357667

Status: Not Answered

ChosenOption: --

Q.82 An oil of specific gravity 0.8 is flowing through a pipe. A differential manometer is connected at the two points, say A and B, and shows a difference in the mercury level as 20 cm. What will be the difference between the pressures at the two points?
 Take density of mercury = 13600 kg/m^3 and $g = 10 \text{ m/s}^2$.

Ans

☒ 1. 1280 kN/m^2

☒ 2. 25.6 kN/m^2

☒ 3. 25.6 N/m^2

☒ 4. 2560 N/m^2

QuestionID:264330100871

Option1ID:264330396029

Option2ID:264330396032

Option3ID:264330396030

Option4ID:264330396031

Status: Answered

ChosenOption: 2

Q.83 Flow process is used for which of the following systems? Ans

☒ 1. Closed system

☒ 2. Both open and closed systems

☒ 3. Open system

☒ 4. Isolated system

QuestionID:264330157530

Option1ID:264330617480

Option2ID:264330617482

Option3ID:264330617479

Option4ID:264330617481

Status:Answered

ChosenOption:3

Q.84 Which of the following is NOT a component of the water-cooling system with radiator? Ans ☒

1. Centrifugal pump

☒ 2. Thermostat

☒ 3. Fan

☒ 4. Condenser

QuestionID:264330160201

Option1ID:264330628144

Option2ID:264330628143

Option3ID:264330628145

Option4ID:264330628146

Status:Answered

ChosenOption:4

Q.85 When any gas is heated at constant pressure, its change in volume varies directly with change in absolute temperature. This law is known as _____.

Ans ☒ 1. Joule's law

☒ 2. Boyle's law

☒ 3. Charles' law

☒ 4. Avogadro's law

QuestionID:26433095631

Option1ID:264330375308

Option2ID:264330375305

Option3ID:264330375306

Option4ID:264330375307

Status:Answered

ChosenOption:3

Q.86 Which of the following air-cooled condensers are used only in small capacity applications such as domestic refrigerators and room air conditioners?

- Ans
- ☒ 1. Natural convection air-cooled condensers
 - ☐ 2. Shell and coil condensers
 - ☐ 3. Remote air-cooled condensers
 - ☐ 4. Base mounted air-cooled condensers

QuestionID: 264330157221
Option1ID: 264330616247
Option2ID: 264330616249
Option3ID: 264330616248
Option4ID: 264330616250
Status: Answered

ChosenOption: 1

Q.87 A rectifier is fitted in an ammonia absorption plant to:

- Ans
- ☐ 1. only remove the unwanted water vapour by cooling the vapour mixture
 - ☐ 2. remove the unwanted water vapour by heating the vapour mixture
 - ☒ 3. remove the unwanted water vapour by cooling the vapour mixture and condensing the water vapour
 - ☐ 4. superheat ammonia vapour

QuestionID: 264330157251
Option1ID: 264330616369
Option2ID: 264330616367
Option3ID: 264330616370
Option4ID: 264330616368
Status: Answered

ChosenOption: 2

Q.88 In a steam boiler, an economiser is used for heating of _____.

- Ans
- ☐ 1. air
 - ☐ 2. fuel
 - ☒ 3. feed water
 - ☐ 4. flue gases

QuestionID: 264330159938
Option1ID: 264330627099
Option2ID: 264330627101
Option3ID: 264330627100
Option4ID: 264330627102
Status: Answered

ChosenOption: 3

Q.89 Which of the following does NOT describe the Diesel cycle? Ans

- ☐ 1. High compression ratio
- ☐ 2. Limited maximum temperature
- ☐ 3. No spark plug needed
- ☒ 4. Constant volume heat addition

QuestionID: 264330160302

Option1ID: 264330628548

Option2ID: 264330628549

Option3ID: 264330628550

Option4ID: 264330628547

Status: Answered

ChosenOption: 4

Q.90 The Energy Gradient line will ____.

- Ans
- ☐ 1. lie below the Hydraulic Gradient line
 - ☒ 2. lie above the Hydraulic Gradient line
 - ☐ 3. coincide with Hydraulic Gradient line
 - ☐ 4. coincide with pipe axis

QuestionID: 26433095674

Option1ID: 264330375478

Option2ID: 264330375477

Option3ID: 264330375479

Option4ID: 264330375480

Status: Answered

ChosenOption: 2

Q.91 In a lubrication method, the oil is kept in the crankcase sump and it is splashed by using the end of a connecting rod to various components of the engine. This method is called ____.

- Ans
- ☐ 1. sumplubrication
 - ☒ 2. splashlubrication
 - ☐ 3. pumplubrication
 - ☐ 4. pressurelubrication

QuestionID: 264330158724

Option1ID: 264330622255

Option2ID: 264330622257

Option3ID: 264330622258

Option4ID: 264330622256

Status: Answered

ChosenOption: 2

Q.92 The mass flow is same at inlet and outlet in case of _____.

- Ans
- ☒ 1. isolated system
 - ☒ 2. non-steady flow process
 - ☒ 3. closed system
 - ☒ 4. steady flow process

QuestionID:26433095642

Option1ID:264330375351

Option2ID:264330375349

Option3ID:264330375352

Option4ID:264330375350

Status:Answered

ChosenOption:3

Q.93 _____ is a metal working process which is an example of forging.

- Ans
- ☒ 1. Extrusion
 - ☒ 2. Welding
 - ☒ 3. Upsetting
 - ☒ 4. Casting

QuestionID:264330157911

Option1ID:264330619003

Option2ID:264330619005

Option3ID:264330619006

Option4ID:264330619004

Status:Answered

ChosenOption:3

Q.94 The net effect of superheating after compression in vapour compression refrigeration cycle is to have _____.

- Ans
- ☒ 1. low C.O.P
 - ☒ 2. decrease in refrigeration effect
 - ☒ 3. high C.O.P
 - ☒ 4. decrease in refrigeration capacity

QuestionID:264330157257

Option1ID:264330616391

Option2ID:264330616393

Option3ID:264330616392

Option4ID:264330616394

Status:Answered

ChosenOption:1

Q.95 Which of the following statements is true about a four-stroke engine in comparison to a two-stroke engine?

- Ans
- ☐ 1. Owing to one power stroke in two revolutions, a lighter flywheel is required.
 - ☐ 2. A four-stroke engine only uses the diesel cycle, while a two-stroke engine only uses the Otto cycle.
 - ☒ 3. Thermal efficiency and part-load efficiency of a four-stroke engine are better than those of a two-stroke engine.
 - ☐ 4. Volumetric efficiency of a four-stroke engine is comparatively low, due to less power output.

QuestionID: 264330158742

Option1ID: 264330622327

Option2ID: 264330622330

Option3ID: 264330622329

Option4ID: 264330622328

Status: Answered

ChosenOption: 3

Q.96 The duplex feed pump is:

- Ans
- ☐ 1. Centrifugal pump
 - ☒ 2. Double-acting reciprocating pump
 - ☐ 3. Axial-flow pump
 - ☐ 4. Single-acting reciprocating pump

QuestionID: 264330159940

Option1ID: 264330627109

Option2ID: 264330627108

Option3ID: 264330627110

Option4ID: 264330627107

Status: Answered

ChosenOption: 2

Q.97 Which of the following is NOT a type of wet sumplubrications system? Ans

- ☐ 1. Splash lubrications system
- ☐ 2. Pump lubrications system
- ☒ 3. Mist lubricating system
- ☐ 4. Pressure lubrications system

QuestionID: 264330160203

Option1ID: 264330628152

Option2ID: 264330628154

Option3ID: 264330628151

Option4ID: 264330628153

Status: Answered

ChosenOption: 3

Q.98 What will be the mass density of one litre of a fluid which weighs 9.81 N? (Take $g = 9.81 \text{ m/sec}^2$)

- Ans
- 1. 1000 gm/cm³ ✗
 - ✓ 2. 1000 kg/m³
 - ✗ 3. 100 gm/cm³
 - ✗ 4. 100 kg/m³

QuestionID:26433096272

Option1ID:264330377838

Option2ID:264330377840

Option3ID:264330377839

Option4ID:264330377837

Status:Answered

ChosenOption:2

Q.99 Which turbine is suitable where a large discharge at low head is available? Ans

- ✓ 1. Kaplan turbine
- ✗ 2. Turgoturbine
- ✗ 3. Pelton turbine
- ✗ 4. Francis turbine

QuestionID:26433096718

Option1ID:264330379609

Option2ID:264330379612

Option3ID:264330379611

Option4ID:264330379610

Status:Answered

ChosenOption:1

Q.100 Which of the following losses fall into the category of major losses? Ans

- 1. Head loss due to sudden enlargement ✗
- ✗ 2. Head loss due to sudden contraction
- ✗ 3. Head loss due to bend of pipe
- ✓ 4. Head loss due to friction

QuestionID:26433095668

Option1ID:264330375455

Option2ID:264330375456

Option3ID:264330375454

Option4ID:264330375453

Status:Answered

ChosenOption:4