



Junior Engineer Civil Mechanical and Electrical Examination 2024 Paper I

Roll Number	
Candidate Name	
Venue Name	
Exam Date	07/06/2024
Exam Time	1:00 PM - 3:00 PM
Subject	Junior Engineer 2024 Mechanical Paper I

Section : General Intelligence and Reasoning

Q.1 Select the figure from the options that can replace the question mark (?) and complete the given pattern.

Ans

X 1.

X 2.

Adda 247

3.

X 4.

Question ID : 630680524805 Option 1 ID : 6306802051320 Option 2 ID : 6306802051319 Option 3 ID : 6306802051322 Option 4 ID : 6306802051321 Status : Answered

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Q.2 Select the option in which the numbers share the same relationship as that shared by the given pairs of numbers.

5:101

10:201

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

X 1. 6 : 120 Ans

X 2. 7 : 50

3. 6 : 121

X 4. 8 : 140

Question ID: 630680387171

Option 1 ID: 6306801509379

Option 2 ID: 6306801509378 Option 3 ID: 6306801509380

Option 4 ID: 6306801509381

Status: Answered

Chosen Option: 3

Q.3 In a certain code language,

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

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

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

'A ÷ B' means 'A is the mother of B'. How is B related to T if 'B + D - G ÷ P × T'?

Ans 📈 1. Sister

2. Father's brother

3. Mother's brother

X 4. Sister's daughter

Question ID: 630680377672

Option 1 ID: 6306801471750

Option 2 ID: 6306801471747 Option 3 ID: 6306801471749

Option 4 ID: 6306801471748

Status: Answered

Chosen Option: 2

Q.4 In a certain code language, 'CAFE' is coded as '3795' and 'FIND' is coded as '8634'.

What is the code for 'F' in the given code language?

Ans

1.3

X 2.4

X 3.8 **X** 4. 9

Question ID: 630680388414

Option 1 ID: 6306801514174

Option 2 ID: 6306801514175

Option 3 ID: 6306801514176 Option 4 ID: 6306801514177

Status: Answered





Q.5 CJHF and HOMK are related to each other in a certain way based on the English alphabetical order. In the same way, SZXV and XECA are related to each other. Which of the following is related to DLTR, following the same logic?

Ans X 1. KQYX

X 2. KQYW

X 3. IQYX

Question ID: 630680379161 Option 1 ID: 6306801477693 Option 2 ID: 6306801477691

Option 3 ID : **6306801477694** Option 4 ID : **6306801477692**

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

Q.6 What should come in place of the question mark (?) in the given series based on the

English alphabetical order? AYH, BWJ, CUL, DSN, ?

Ans X 1. FPR

2. EQP

X 3. EPL

X 4. EQS

Question ID : 630680378952

Option 1 ID : **6306801476856** Option 2 ID : **6306801476855**

Option 3 ID : 6306801476857

Option 4 ID : **6306801476858** Status : **Answered**

Chosen Option: 2

Q.7 Select the correct mirror image of the given figure when the mirror is placed at MN as shown below.

Adda 247

Ans

X 1.

 \times 2

X 3.

4.

Question ID : 630680456655

Option 1 ID : 6306801783583

Option 2 ID : **6306801783584**

Option 3 ID: 6306801783585

Option 4 ID: 6306801783586

Status : Answered





Q.8 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.) (17, 68, 8)

(16, 72, 9)

Ans X 1. (25, 140, 12)

X 2. (13, 78, 5)

X 3. (11, 109, 13)

4. (10, 105, 21)

Question ID: 630680376811
Option 1 ID: 6306801468310
Option 2 ID: 6306801468308
Option 3 ID: 6306801468307
Option 4 ID: 6306801468309
Status: Answered

Chosen Option: 4

- Q.9 Select the correct option that indicates the arrangement of the following words in a logical and meaningful order.
 - 1. Elderly
 - 2. Adolescent
 - 3. Infant
 - 4. Adult
 - 5. Baby

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

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

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

Question ID: 630680395038
Option 1 ID: 6306801540420
Option 2 ID: 6306801540421
Option 3 ID: 6306801540422
Option 4 ID: 6306801540423

Status: Answered

Chosen Option: 1

Q.10 Six friends Abby, Bunny, Chan, Dolly, Emma and Fanny have different weights. Dolly's weight is an odd number. Dolly is heavier than Emma but not the heaviest. Chan is heavier than Fanny but lighter than Dolly. Chan is not heavier than Emma but is heavier than Fanny and Abby. Abby's weight is not an odd number. The lightest weight is 45 kilograms and the heaviest weight is 80 kilograms.
If Chan weighs 68 kilograms, which of the following can be the possible weight of

Ans X 1. 72

X 2. 66

Dolly (in kilograms)?

3. 71

X 4. 65

Question ID : 630680521124

Option 1 ID: 6306802036921 Option 2 ID: 6306802036922 Option 3 ID: 6306802036923 Option 4 ID: 6306802036924

Status : Answered





Q.11 Suresh starts from his home and drives 5 km towards the south. He then takes a left turn, drives 6 km, turns left, and drives 9 km. He then takes a left turn and drives 3 km and turns left, then drives 7 km to reach his office. In which direction is the office with respect to his home? (All turns are 90° turns only, unless specified.)

Ans

X 1. North-east

2. South-east

X 3. West

X 4. North-west

Question ID : 630680376875

Option 1 ID: 6306801468565

Option 2 ID: 6306801468566

Option 3 ID: 6306801468564

Option 4 ID: 6306801468563

Status : Answered

Chosen Option: 2

Q.12

Ans X 1. 15

2. 18

X 3. 16

X 4. 14

Question ID : 630680524411

Option 1 ID : 6306802049743

Option 2 ID : 6306802049746 Option 3 ID : 6306802049744

Option 4 ID: 6306802049745

Status : Answered

Chosen Option : 2

Q.13 PARK is related to QCUM in a certain way based on the English alphabetical order. In the same way, STOP is related to TVRR. To which of the following is RAMP related, following the same logic?

Ans

✓ 1. SCPR

X 2. TCPR

X 3. SCQR

X 4. TCQR

Question ID: 630680376878

Option 1 ID : 6306801468577

Option 2 ID: 6306801468578

Option 3 ID : **6306801468576** Option 4 ID : **6306801468575**

Status : Answered





Q.14 In a certain code language, 'MADE' is coded as '3517' and 'DOGS' is coded as '2458'. What is the code for 'D' in the given language?

Ans

X 2. 2

X 3. 1 **4**. 5

Question ID: 630680376548

Option 1 ID: 6306801467261 Option 2 ID: 6306801467260 Option 3 ID: 6306801467259

Option 4 ID: 6306801467262 Status: Answered

Chosen Option: 4

Q.15 JNHF is related to MQKI in a certain way based on the English alphabetical order. In the same way, HLFD is related to KOIG. To which of the following is FJDB related, following the same logic?

Ans

√ 1. IMGE

X 2. IMEG

X 3. MIGE

X 4. MIEG

Question ID : **630680466958**

Option 1 ID: 6306801823802

Option 2 ID: 6306801823803 Option 3 ID: 6306801823804

Option 4 ID: 6306801823805

Status : Answered

Chosen Option: 1

Q.16 What will come in the place of the question mark (?) in the following equation, if '+' and '-' are interchanged and 'x' and '±' are interchanged? 20 - 2 ÷ 4 × 2 + 6 =?

X 1. 20

2. 18

X 3. 22

X 4. 14

Question ID: 630680377707

Option 1 ID: 6306801471887

Option 2 ID: 6306801471888

Option 3 ID: 6306801471890

Option 4 ID: 6306801471889

Status: Answered





Q.17 SPUR is related to WTYV in a certain way based on the English alphabetical order. In the same way, PMRO is related to TQVS. To which of the following is IFKH related, following the same logic?

Ans

X 1. JMLO

🗶 2. JMOL

✗ 3. MJLO✓ 4. MJOL

Question ID: 630680376568 Option 1 ID: 6306801467341 Option 2 ID: 6306801467342 Option 3 ID: 6306801467340

Option 4 ID : 6306801467339

Status : Answered

Chosen Option: 4

Q.18 Anil starts from point A and drives 7 km towards the east. He then takes a left turn, drives 3 km, turns left, and drives 9 km. He then takes a right turn and drives 3 km. He takes a final right turn, drives 2 km, and stops at point P. How far (shortest distance) and towards which direction should he drive in order to reach point A again?

Ans X 1.8 km towards the east

2. 6 km towards the south

(All turns are 90° turns only, unless specified.)

X 3. 9 km towards the east

X 4. 6 km towards the west

Question ID: 630680377443

Option 1 ID: 6306801470836

Option 2 ID: 6306801470835

Option 3 ID: 6306801470837

Option 4 ID: 6306801470838

Status: Answered

Chosen Option: 2

Q.19 6 is related to 76 following a certain logic. Following the same logic, 8 is related to 102. To which of the following is 15 related following the same logic?

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

Ans X 1. 198

2. 193

X 3. 190

X 4. 197

Question ID: 630680451720

Option 1 ID: 6306801763966

Option 2 ID: 6306801763967

Option 3 ID: 6306801763968

Option 4 ID: 6306801763969

Status : Answered





Q.20 What will come in place of the question mark (?) in the following equation if '+' and '÷' are interchanged and 'x' and '-' are interchanged?

 $84 + 12 \times 9 \div 13 - 21 = ?$

Ans **X** 1. 264

2. 271

X 3. 259

X 4. 273

Question ID: 630680376975

Option 1 ID: 6306801468964

Option 2 ID: 6306801468963

Option 3 ID: 6306801468965

Option 4 ID: 6306801468966

Status : Answered

Chosen Option: 2

Q.21 843 is related to 732 following a certain logic. Following the same logic, 632 is related to 521. To which of the following is 357 related following the same logic?

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

X 1. 240 Ans

2. 246

X 3. 340

X 4. 346

Question ID: 630680396898

Option 1 ID: 6306801547660

Option 2 ID: 6306801547661

Option 3 ID: 6306801547662 Option 4 ID: 6306801547663

Status: Answered

Chosen Option: 2

Q.22 What should come in place of the question mark (?) in the given series? 23, 26, 31, 38, 49, ?

Ans

X 1. 60

X 2. 61

X 3. 59

4. 62

Question ID: 630680376727

Option 1 ID: 6306801467973

Option 2 ID: 6306801467972

Option 3 ID: 6306801467974

Option 4 ID: 6306801467971 Status: Answered





Q.23 'AC 2' is related to 'DF 8' in a certain way based on the English alphabetical and numerical order. In the same way, 'IK 5' is related to 'LN 125'. To which of the following is 'QS 7' related following the same logic?

Ans X 1. SY 343

X 2. TU 343

X 4. SU 343

Question ID: 630680377768

Option 1 ID : **6306801472132** Option 2 ID : **6306801472133**

Option 3 ID : **6306801472131**

Option 4 ID : 6306801472134

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

Q.24 In a certain code language, 'KNOT' is coded as '3618' and 'NOTE' is coded as '6438'. What is the code for 'E' in the given code language?

Ans X 1. 1

X 2. 3

3. 4

X 4. 6

Question ID : 630680377755

Option 1 ID: 6306801472079

Option 2 ID : **6306801472080**

Option 3 ID : **6306801472081** Option 4 ID : **6306801472082**

Status : Answered







Q.25 Select the option in which the given figure is embedded (rotation is NOT allowed). Ans **X** 1. **X** 2. **3**. **X** 4. Question ID: 630680422242 Option 1 ID: 6306801647404 Option 2 ID : 6306801647405 Option 3 ID: 6306801647406 Option 4 ID: 6306801647407 Status : Answered Chosen Option: 3 Q.26 What should come in place of the question mark (?) in the given series? 115, 91, 70, 52, 37, ? Ans X 1. 21 **2**. 25 **X** 3. 27 **X** 4. 23 Question ID : **630680380560** Option 1 ID : 6306801483227 Option 2 ID: 6306801483230 Option 3 ID: 6306801483228 Option 4 ID: 6306801483229 Status: Answered Chosen Option : 2





Q.27 Select the option in which the given figure is embedded (rotation is NOT allowed).

Ans

X 1.

X 2.

3.

X 4.



Question ID: 630680524486
Option 1 ID: 6306802050046
Option 2 ID: 6306802050043
Option 3 ID: 6306802050044
Option 4 ID: 6306802050045
Status: Answered





Q.28 The position(s) of how many letters will remain unchanged if each of the letters in the word 'BLANKET' is arranged in alphabetical order?

Ans

X 1. Two

2. One

X 3. Zero

X 4. Three

Question ID : 630680375961

Option 1 ID: 6306801464915

Option 2 ID: 6306801464918

Option 3 ID: 6306801464917 Option 4 ID: 6306801464916

Status: Answered

Chosen Option: 2

Q.29 What should come in place of the question mark (?) in the given series based on the English alphabetical order?

FLOY, JPSC, NTWG, RXAK, ?

Ans X 1. VBGT

2. VBEO

X 3. VOED

X 4. VOBE

Question ID: 630680469537

Option 1 ID: 6306801833915

Option 2 ID: 6306801833916

Option 3 ID: 6306801833917 Option 4 ID: 6306801833918

Status : Answered

Chosen Option: 2

Q.30 What should come in place of '?' in the given series?

147, 206, 124, 183, 101, 160, ?

Ans

1.78

X 2. 61

X 3. 40

X 4. 56

Question ID: 630680378806

Option 1 ID: 6306801476272

Option 2 ID: 6306801476273

Option 3 ID: 6306801476274

Option 4 ID: 6306801476271

Status: Answered





Q.31 Q, R, S, T, U, and V are sitting around a circular table, facing the centre (not necessarily in the same order) . S sits second to the left of R. Q sits third to the right of S. T is not an immediate neighbour of S. U sits to the immediate left of S. How many people are sitting between U and R when counted from the right of R?

Ans

✓ 1. Two

X 2. Three X 3. One

X 4. Zero

Question ID: 630680377643 Option 1 ID: 6306801471633 Option 2 ID: 6306801471634 Option 3 ID: 6306801471632 Option 4 ID: 6306801471631

Status: Answered

Chosen Option: 1

Q.32 In a certain code language,

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

'A - B' means 'A is the brother of B'

'A × B' means 'A is the husband of B',

'A ÷ B' means 'A is the father of B'.

How is Z related to V if 'Z \div X - C \div V \times B + N'?

Ans X 1. Mother's father

X 2. Father

X 3. Brother

4. Father's father

Question ID: 630680378721 Option 1 ID: 6306801475933 Option 2 ID: 6306801475934 Option 3 ID: 6306801475932

Option 4 ID: 6306801475931 Status: Answered

Chosen Option: 4

Q.33 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.) (47, 1, 23)

(58, 4, 27)

Ans

1. (74, 18, 28)

X 2. (36, 30, 5)

X 3. (50, 14, 16)

X 4. (64, 5, 12)

Question ID: 630680376819

Option 1 ID: 6306801468340

Option 2 ID: 6306801468341

Option 3 ID: 6306801468342

Option 4 ID: 6306801468339

Status: Answered





Q.34 Select the option in which the given figure is embedded (rotation is NOT allowed). Ans **X** 1. 2. **X** 3. **X** 4. Question ID: 630680524474 Option 1 ID: 6306802049997 Option 2 ID : **6306802049996** Option 3 ID: 6306802049995 Option 4 ID: 6306802049998 Status : **Answered** Chosen Option : 2





Q.35 Read the given statements and conclusions carefully. Assuming that the information given in the statements is true, even if it appears to be at variance with commonly known facts, decide which of the given conclusions logically follow(s) from the statements.

Statements: All roads are speed-breakers. No speed-breaker is a home.

Conclusion 1: Some roads are homes.

Conclusion 2: Some homes are speed-breakers.

Ans X 1. Only conclusion (2) follows

X 2. Both conclusion (1) and conclusion (2) follow

X 3. Only conclusion (1) follows

4. None of the conclusions follow

Question ID: 630680381550
Option 1 ID: 6306801487132
Option 2 ID: 6306801487133
Option 3 ID: 6306801487131
Option 4 ID: 6306801487134
Status: Answered







Q.36 Select the option figure that will replace the question mark (?) in the figure given below to complete the pattern. Ans **X** 1. **4** 2. **X** 3. **X** 4. Question ID: 630680525605 Option 1 ID: 6306802054507 Option 2 ID: 6306802054505 Option 3 ID: 6306802054504 Option 4 ID: 6306802054506 Status: Answered Chosen Option: 2 Q.37 What should come in place of the question mark (?) in the given series based on the English alphabetical order? SJF, NEA, IZV, DUQ, ? √ 1. YPL Ans X 2. YQL X 3. XPL 4. XPM Question ID: 630680376693 Option 1 ID: 6306801467838 Option 2 ID: 6306801467835 Option 3 ID: 6306801467836 Option 4 ID: 6306801467837 Status: Answered





Q.38 The position of how many letters will remain unchanged if each of the letters in the word 'SALIENT' is arranged in the English alphabetical order?

Ans

🗶 1. Foui

2. One

X 3. Two

X 4. Three

Question ID : 630680404433

Option 1 ID: 6306801577232

Option 2 ID : **6306801577233** Option 3 ID : **6306801577234**

Option 4 ID : 6306801577235

Status : Answered

Chosen Option: 2

Q.39 CF 9 is related to IL 21 in a certain way. In the same way, MP 29 is related to SV 41. To which of the following is KN 25 related, following the same logic?

Δns

✓ 1. QT 37

X 2. GJ 18

X 3. QS 37

X 4. LJ 18

Question ID: 630680375828

Option 1 ID: 6306801464384

Option 2 ID: 6306801464383

Option 3 ID: 6306801464385

Option 4 ID : **6306801464386** Status : **Answered**

Chosen Option : 1

Q.40 What should come in place of the question mark (?) in the given series based on the English alphabetical order?

DMU, HQY, LUC, PYG, TCK, ?

Ans

X 1. TDL

2. XGO

X 3. YHL

★ 4. UBI

24|7|

Question ID: 630680379361

Option 1 ID: 6306801478488

Option 2 ID: 6306801478489

Option 3 ID : 6306801478490

Option 4 ID: 6306801478487

Status : **Answered**





Q.41 Read the given statements and conclusions carefully. Assuming that the information given in the statements is true, even if it appears to be at variance with commonly known facts, decide which of the given conclusions logically follow(s) from the statements.

Statements: Some machines are shrugs. All machines are bins. No shrug is a cloth.

Conclusion (I): No cloth is a machine.

Conclusion (II): At least some shrugs are bins.

Ans X 1. Only conclusion (I) follows

X 2. Neither conclusion (I) nor (II) follows

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

4. Only conclusion (II) follows

Question ID: 630680376525

Option 1 ID: 6306801467167

Option 2 ID: 6306801467169

Option 3 ID: 6306801467170

Option 4 ID: 6306801467168

Status: Answered

Chosen Option : 4

Q.42 Seven people - S, O, L, D, I, E, and R - are sitting around a circular table, facing the centre (not necessarily in the same order). O sits fourth to the left of E and R sits third to the right of O. L sits to the immediate left of R and to the immediate right of D. S sits second to the right of R.

Who are the immediate neighbours of I?

Ans X 1. S and E

X 2. O and D

X 3. O and L

Question ID: 630680377624 Option 1 ID: 6306801471555 Option 2 ID: 6306801471557 Option 3 ID: 6306801471558 Option 4 ID: 6306801471556

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

Q.43 What should come in place of ? in the given series based on the English alphabetical

BLH, EKF, HJD, KIB, ?

Ans 🗳 1. NHZ

X 2. MEX

X 3. MFX

X 4. OGY

Question ID: 630680375974

Option 1 ID: 6306801464967

Option 2 ID: 6306801464968

Option 3 ID: 6306801464970

Option 4 ID: 6306801464969

Status : Answered





Q.44 This question consists of a pair of words that have a certain relationship to each other. Select the pair that has the same relationship.

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

Pressure : Pascal

X 1. Force : Candela Ans

✓ 2. Electric Potential: Volt

X 3. Sound : Watt

X 4. Frequency: Ohm

Question ID: 630680571477 Option 1 ID: 6306802234945 Option 2 ID: 6306802234946 Option 3 ID: 6306802234947

Option 4 ID: 6306802234948 Status: Answered

Chosen Option: 2

Q.45 Select the pair in which the numbers are related to each other in the same way as are the numbers of the given pairs.

(NOTE: Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits. E.g. 13 - Operations on 13 such as adding/deleting/multiplying etc. to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed.) (297, 466)

(342, 511)

X 1. (194, 353)

X 2. (116, 292)

X 3. (189, 348)

4. (225, 394)

Question ID: 630680392062

Option 1 ID: 6306801528624

Option 2 ID: 6306801528625

Option 3 ID: 6306801528623

Option 4 ID: 6306801528622

Status: Answered

Chosen Option: 4

Q.46 What will come in the place of the question mark (?) in the following equation, if '+' and -' are interchanged and 'x' and '÷' are interchanged?

 $61 - 45 \times 15 + 5 \div 9 = ?$

Ans X 1.4

X 2. 14

3. 19

X 4. 9

Question ID: 630680377615

Option 1 ID: 6306801471521

Option 2 ID: 6306801471519

Option 3 ID: 6306801471522

Option 4 ID: 6306801471520

Status: Answered





Q.47 In a certain code language, 'CARE' is coded as '3195' and 'HARE' is coded as '9341'. What is the code for 'H' in that language?

Ans

1 4

× 2.9 × 3.5

X 4. 1

Question ID: 630680376411

Option 1 ID : **6306801466714** Option 2 ID : **6306801466712**

Option 3 ID : **6306801466711** Option 4 ID : **6306801466713**

Status : Answered

Chosen Option: 1

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

Ans

🟋 1. OQS

✓ 2. OQT✗ 3. PQT

X 4. PQS

Question ID : 630680394867

Option 1 ID : **6306801539755**

Option 2 ID : **6306801539754** Option 3 ID : **6306801539753**

Option 4 ID : **6306801539752**

Status: Answered

Chosen Option : 2

Q.49 Select the correct option that indicates the arrangement of the following words in a logical and meaningful order.

1. Eiffel Tower

2. Europe

3. Paris

4. Earth

5. France

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

2. 4, 2, 5, 3, 1

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

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

Question ID : **630680565825**

Option 1 ID: 6306802212251

Option 2 ID : **6306802212249**

Option 3 ID: 6306802212250

Option 4 ID: 6306802212248

Status : Answered





Q.50 If A means +, B means -, C means × and D means ÷, then what will come in place of the question mark (?) in the following equation?

40 B 6 C 7 A 30 D 5 = ?

Ans

1.4

X 2. 2

X 3. 5

X 4. 3

Question ID : 630680388273

Option 1 ID: 6306801513616

Option 2 ID: 6306801513614

Option 3 ID : **6306801513617**

Option 4 ID : **6306801513615** Status : **Answered**

Chosen Option : 1

Section: General Awareness

Q.1 The equipment used to record the intensity of an earthquake is _____

Ans 💜 1. seismograph

X 2. calorimeter

X 3. pyrometer

X 4. barometer

Question ID : 630680564465

Option 1 ID: 6306802206789

Option 2 ID : **6306802206787** Option 3 ID : **6306802206788**

Option 4 ID : **6306802206790**

Status : Answered

Chosen Option : 1

Q.2 Who is the writer of Indian president's biography 'Droupadi Murmu : From Tribal

Hinterlands to Raisina Hill'?

Ans X 1. Kamala Surayya

2. Kasturi Ray3. Phoolan Devi

X 4. Mary Kom

Question ID: 630680493448

Option 1 ID: 6306801927531

Option 2 ID: 6306801927532

Option 3 ID : **6306801927533**

Option 4 ID: 6306801927534

Status: Answered





Q.3 Which of the following is NOT a major river basin in India?

Ans X 1. Narmada

🗙 2. Tapi

X 3. Krishna

4. Kalindi

Question ID: 630680511004 Option 1 ID: 6306801997147 Option 2 ID: 6306801997149 Option 3 ID: 6306801997146 Option 4 ID: 6306801997148

Status : Answered

Chosen Option: 4

Q.4 If the government decides to privatise a major public sector industry, what might be an unintended consequence?

Ans X 1. Reduction in corruption

X 2. Immediate increase in public revenue

3. Potential monopolistic practices

X 4. Enhancement of operational efficiency

Question ID: 630680543955
Option 1 ID: 6306802126610
Option 2 ID: 6306802126607
Option 3 ID: 6306802126609
Option 4 ID: 6306802126608
Status: Answered

Chosen Option: 3

Q.5 Which of the following is a shortcut key to undo the last action in many word processors?

Ans 1. Ctrl + Z

X 2. Ctrl + X

X 3. Ctrl + C

× 4. Ctrl + V

Question ID: 630680571764

Option 1 ID: 6306802235960

Option 2 ID: 6306802235961

Option 3 ID: 6306802235962

Option 4 ID: 6306802235963

Status: Answered

Chosen Option : 1

Q.6 Which type of cell lacks a membrane-bound nucleus?

Ans 💜 1. Prokaryotic cell

2. Eukaryotic cell

X 3. Animal cell

X 4. Plant cell

Question ID : **630680411628** Option 1 ID : **6306801605347**

Option 2 ID : **6306801605348** Option 3 ID : **6306801605349** Option 4 ID : **6306801605350**

Status : Answered





How many fundamental duties of citizens have been enumerated by the 42nd Q.7 Amendment of the Constitution, adopted in 1976?

Ans

2. 10

X 3. 11

X 4. 13

Question ID : 630680493463 Option 1 ID: 6306801927591 Option 2 ID: 6306801927592

Option 3 ID: 6306801927593 Option 4 ID: 6306801927594

Status : Answered

Chosen Option: 3

Q.8 According to the Census 2011 of India, arrange the following metropolitan cities on the basis of population in ascending order?

A. Delhi

B. Mumbai

C. Kolkata

Ans X 1. B, C, A

🚀 2. C, A, B

X 3. A, B, C

🗙 4. B, A, C

Question ID: 630680477225

Option 1 ID: 6306801864061 Option 2 ID: 6306801864062

Option 3 ID: 6306801864063

Option 4 ID: 6306801864064

Status: Answered

Chosen Option: 2

Through which of the following body parts does food need to pass before reaching the intestines?

Ans

X 1. Windpipe --> Food pipe

X 2. Mouth --> Rectum

3. Oesophagus --> Stomach

X 4. Stomach --> Rectum

Question ID : 630680539639

Option 1 ID: 6306802109681

Option 2 ID: 6306802109682

Option 3 ID: 6306802109683

Option 4 ID: 6306802109684

Status: Answered





Q.10 Food rich in carbohydrates (like potatoes) and those rich in fats (like butter) are also known as _____.

Ans 1. Energy-Giving Food

X 2. Main Course

X 3. Unsafe Food

X 4. Fast Food

Question ID : **630680539583** Option 1 ID : **6306802109461**

Option 2 ID : **6306802109462** Option 3 ID : **6306802109463** Option 4 ID : **6306802109464**

Status : Answered

Chosen Option: 1

Q.11 The National Waterway (NW) - 3 is located in which of the following states?

Ans 💜 1. Kerala

X 2. Gujarat

X 3. Maharashtra

X 4. Andhra Pradesh

Question ID: 630680510975

Option 1 ID: **6306801997030**Option 2 ID: **6306801997031**Option 3 ID: **6306801997032**

Option 4 ID : **6306801997033** Status : **Not Answered**

Chosen Option : --

Q.12 In 2010, in which Indian state did the crisis of microfinance happen?

Ans X 1. Karnataka

X 2. Tamil Nadu

3. Andhra Pradesh

X 4. Maharashtra

Question ID: 630680402049

Option 1 ID: 6306801567896

Option 2 ID : **6306801567897** Option 3 ID : **6306801567898**

Option 4 ID: 6306801567899

Status: Not Answered

Chosen Option : --

Q.13 The concept of 'Standard Urban Area (SUA)' was introduced in which census of India?

X 2. Census 1961

X 3. Census 1951

X 4. Census 1981

Question ID: 630680477207

Option 1 ID: 6306801863993

Option 2 ID: 6306801863994

Option 3 ID : **6306801863995** Option 4 ID : **6306801863996**

Status : Not Answered





Q.14 A nonstop train moving on a straight track with a uniform acceleration passed station A at a velocity of 'u' and reached the next station B at a velocity of '5u'. Its average velocity between the given stations is:

Ans

X 1. 2u

※ 2. 2.5u**⋄** 3. 3u

🗙 4. 4u

Question ID: 630680419680

Option 1 ID : **6306801637213** Option 2 ID : **6306801637214**

Option 3 ID : **6306801637215** Option 4 ID : **6306801637216**

Status : Answered

Chosen Option: 3

Q.15 What is the medical term for high blood pressure?

Ans

X 1. Hypoglycemia

2. Hypertension

X 3. Hypotension

X 4. Hyperglycemia

Question ID: 630680701423

Option 1 ID: 6306802747630 Option 2 ID: 6306802747631

Option 3 ID : **6306802747629** Option 4 ID : **6306802747632**

Status: Answered

Chosen Option: 2

Q.16 In September 2023, Skill India Mission introduced a scheme that aims to spread awareness at grass root level about free skill training programmes for youth through robust skill training. What is the name of that scheme?

Ans

X 1. Skills on the Go

2. Skills on Wheels

X 3. Skills on the Move

X 4. Skill Bus

Question ID : 630680479130

Option 1 ID : 6306801871473

Option 2 ID: 6306801871474

Option 3 ID : **6306801871475**

Option 4 ID: 6306801871476

Status : Not Answered





Q.17 Select the correct arrangement of the parts of the food canal in humans from the starting point to the ending point.

Ans X 1. The buccal cavity ---> Oesophagus ---> Stomach ---> Large intestine ---> Small intestine ---> Rectum ---> Anus

X 2. The buccal cavity ---> Oesophagus ---> Stomach ---> Small intestine ---> Large intestine ---> Rectum

X 3. The buccal cavity ---> Oesophagus ---> Stomach ---> Large intestine ---> Small intestine ---> Rectum

✓ 4. The buccal cavity ---> Oesophagus ---> Stomach ---> Small intestine ---> Large intestine ---> Rectum ---> Anus

Question ID: 630680403185 Option 1 ID: 6306801572261 Option 2 ID: 6306801572262

Option 2 ID : 6306801572262 Option 3 ID : 6306801572263 Option 4 ID : 6306801572264

Status : Answered

Chosen Option: 4

Q.18 Which Indian state passed the Right to Health (RTH) bill, which guarantees access to equitable healthcare services for all patients in March 2023?

Ans X 1. Gujarat

X 2. Maharashtra

3. Rajasthan

X 4. Tamil Nadu

Question ID: 630680513810 Option 1 ID: 6306802007868 Option 2 ID: 6306802007867

Option 3 ID : **6306802007866** Option 4 ID : **6306802007865** Status : **Answered**

Chosen Option: 3

Q.19 Calcium hydroxide is the chemical name of which of the following saturated aqueous solutions?

Ans X 1. Hard water

X 2. Carbonated water

X 3. Black Water

4. Limewater

Question ID: 630680403001

Option 1 ID: 6306801571578

Option 2 ID: 6306801571575

Option 3 ID: 6306801571576

Option 4 ID: 6306801571577

Status : Answered





Q.20 Which of the following states has the largest legislative assembly (in terms of number of members) in the country as on 30th September 2023?

Ans

X 1. Rajasthan

X 2. Tamil Nadu

X 3. Madhya Pradesh

4. Uttar Pradesh

Question ID: 630680407819 Option 1 ID: 6306801590214 Option 2 ID: 6306801590215 Option 3 ID: 6306801590216

Option 4 ID : **6306801590217** Status : **Not Answered**

Chosen Option : --

Q.21 All the living and non-living things in a particular area constitute the _ of the area.

Ans

X 1. Life Circle

2. Ecosystem

X 3. Species

X 4. Food Web

Question ID: 630680539335
Option 1 ID: 6306802108470
Option 2 ID: 6306802108471
Option 3 ID: 6306802108468
Option 4 ID: 6306802108469
Status: Answered

Chosen Option : 2

Q.22 Which white powder, ubiquitous in modern kitchens, combines with acid to produce carbon dioxide?

Ans X 1. Sodium phosphate

X 2. Sodium fluoride

X 3. Sodium nitrate

4. Sodium bicarbonate

Question ID: 630680404439

Option 1 ID: 6306801577258 Option 2 ID: 6306801577257 Option 3 ID: 6306801577259 Option 4 ID: 6306801577256

Status : Answered





Q.23 Which of the following Hindustani ragas corresponds to the 'Mohanam Ragam' of Carnatic music?

Ans

1. Bhoop

💢 2. Aadi

X 3. Zilla

X 4. Bagkauns

Question ID: 63068078057

Option 1 ID: 630680302289 Option 2 ID: 630680302290 Option 3 ID: 630680302292 Option 4 ID: 630680302291

Status : Not Answered

Chosen Option: --

Q.24 If 'G', 'M' and 'R' represent the universal gravitation constant, mass of the earth and radius of the earth, respectively, then which of the following is the correct expression for the acceleration due to gravity (g) on the surface of the earth?

Ans

√ 1. GM/R²

X 2. GM²/R

X 3. GM/R

★ 4. GMR²

Question ID : 630680406262

Option 1 ID: 6306801584275

Option 2 ID : **6306801584272** Option 3 ID : **6306801584273**

Option 4 ID : **6306801584274**

Status : Answered

Chosen Option: 1

Q.25 According to the census of India 2011, which of the following states has the highest density of population per square kilometre?

Ans

X 1. Uttar Pradesh

X 2. Maharashtra

3. West Bengal

X 4. Odisha

Question ID : 630680477179

Option 1 ID : 6306801863885

Option 2 ID: 6306801863886

Option 3 ID : **6306801863887**

Option 4 ID: **6306801863888**

Status : Answered





Q.26 Rama experiences a drop in temperature as she is getting higher and higher in the mountains while trekking. What could be the cause of this?

Ans

2. Lower air pressure at altitude

X 3. Higher air pressure at altitude

X 4. Rama's fatigue

Question ID: 630680546823 Option 1 ID: 6306802137858

Option 2 ID: 6306802137860 Option 3 ID: 6306802137859 Option 4 ID: 6306802137861

Status: Answered

Chosen Option: 2

Q.27 Karnam Malleshwari won a bronze medal at which Olympic games?

√ 1. 2000 Sydney

X 2. 2004 Athens

X 3. 2008 Beijing

X 4. 2012 London

Question ID: 630680435732

Option 1 ID: 6306801700849 Option 2 ID: 6306801700850 Option 3 ID: 6306801700851 Option 4 ID: 6306801700852

Status: Not Answered

Chosen Option: --

Q.28 In 1527, battle of khanwa fought between Babur and ruler of mewar

Ans X 1. Prithviraj

X 2. Rana Pratap

X 4. Rana Mewari

Question ID: 630680511631

Option 1 ID: 6306801999647

Option 2 ID: 6306801999646 Option 3 ID: 6306801999649

Option 4 ID: 6306801999648 Status: Answered

Chosen Option: 3

Q.29 Which part of the cell is responsible for generating the primary energy molecule ATP in eukaryotic animals?

Ans

1. Mitochondria

2. Endoplasmic reticulum

X 3. Cell wall

X 4. Vacuoles

Question ID: 630680403313

Option 1 ID: 6306801572763

Option 2 ID: 6306801572765 Option 3 ID: 6306801572764

Option 4 ID: 6306801572762 Status : Answered





Q.30 The first Anglo-Afghan war took place between 1838 - _____.

Ans

X 1. 1840

2. 1842

X 3. 1844

X 4. 1841

Question ID : 630680511482

Option 1 ID: 6306801999050

Option 2 ID: 6306801999052

Option 3 ID : **6306801999053**

Option 4 ID : 6306801999051

Status: Answered

Chosen Option: 2

Q.31 For strengthening the fundamental duties, the Verma Committee identified a few existing acts by which a proper implementation of such duties can be accomplished. Which of the following was NOT referred by him?

Δne

X 1. Representation of People Act, 1951

X 2. Protection of Civil Rights Act, 1955

X 3. Unlawful Activities Protection Act, 1967

Question ID: 630680615088

Option 1 ID: 6306802407020

Option 2 ID: 6306802407021

Option 3 ID: 6306802407022

Option 4 ID : **6306802407023** Status : **Answered**

Chosen Option : 4

Q.32 Which minister was in the news to launch the country's first crash testing programme 'Bharat NCAP', on 22 August 2023?

Ans

1. Nitin Gadkari

X 2. Raj Nath Singh

X 3. Amit Shah

X 4. Ashwini Vaishnaw

Question ID: 630680412669

Option 1 ID: 6306801609499

Option 2 ID: 6306801609500

Option 3 ID: 6306801609501

Option 4 ID: 6306801609502

Status : Answered





Q.33 Why is there a need to encourage Indian farmers to switch to sustainable crops / farming systems?

Ans X 1. To increase upfront costs

X 2. To meet the current calorie needs of the population

3. To address environmental damage and degradation of ecosystem services

4. To reduce the use of technology in agriculture

Question ID: 630680488131
Option 1 ID: 6306801906583
Option 2 ID: 6306801906584
Option 3 ID: 6306801906585
Option 4 ID: 6306801906586
Status: Answered

Chosen Option: 3

Q.34 What is the full form of GST?

Ans X 1. Gifts and Sale Tax

2. Goods and Services Tax

X 3. Goods and Sale Tax

X 4. Gifts and Services Tax

Question ID: 630680511442
Option 1 ID: 6306801998901
Option 2 ID: 6306801998898
Option 3 ID: 6306801998900
Option 4 ID: 6306801998899
Status: Answered

Chosen Option: 2

Q.35 5 stones were dropped from the top of a building. They all fell to the ground in straight lines. What can be said about their motion?

Ans 1. They had rectilinear motion

X 2. They had curvilinear motion

X 3. They had slow motion

X 4. They had gravity free motion

Question ID: 630680401746
Option 1 ID: 6306801566754
Option 2 ID: 6306801566755
Option 3 ID: 6306801566756
Option 4 ID: 6306801566757
Status: Answered

Chosen Option : 1

Q.36 Who among the following eminent musicians was born in Bihar?

Ans 🗳 1. Ustad Bismillah Khan

X 2. Ustad Zakir Hussain

X 3. Pandit Shivkumar Sharma

💢 4. Pandit Ravi Shankar

Question ID : **630680436911** Option 1 ID : **6306801705575**

Option 2 ID : **6306801705574** Option 3 ID : **6306801705573** Option 4 ID : **6306801705576**

Status: Not Answered





Q.37 What is the function of the endoplasmic reticulum (ER)?

Ans

X 1. DNA replication

X 2. Protein synthesis

X 3. Energy production

4. Lipid synthesis and detoxification

Question ID: 630680540557 Option 1 ID: 6306802113305 Option 2 ID: 6306802113303 Option 3 ID: 6306802113306 Option 4 ID: 6306802113304

Status : Answered

Chosen Option : 2

Q.38 When and where was the Veda Samaj, inspired by the Brahmo Samaj, established?

Ans

X 1. Bombay 1867

X 2. Lahore 1875

X 3. Calcutta 1830

4. Madras 1864

Question ID: 630680511588
Option 1 ID: 6306801999475
Option 2 ID: 6306801999477
Option 3 ID: 6306801999476
Option 4 ID: 6306801999474
Status: Not Answered

Chosen Option : --

Q.39 Which of the following is NOT one of the five outlined pillars of Atmanirbhar Bharat?

Ans

X 1. Economy

X 2. Infrastructure

X 3. Demand

4. Resilience

Question ID: 630680481009

Option 1 ID: 6306801878620

Option 2 ID : **6306801878621** Option 3 ID : **6306801878622**

Option 4 ID : **6306801878623**

Status : Not Answered

Chosen Option : --

Q.40 Sometimes when heated, solid changes into liquid at normal atmospheric pressure on reaching its melting point. What is the name of the amount of heat required?

Ans

X 1. Latent heat of diffusion

2. Latent heat of fusion

X 3. Latent melting point

X 4. Latent change of state point

Question ID : 630680402653

Option 1 ID : 6306801570211

Option 2 ID: 6306801570212

Option 3 ID: 6306801570213

Option 4 ID: 6306801570214

Status : Answered





Q.41 On 26 July 2023, Tenzing Yangki created history in Arunachal Pradesh by achieving a prestigious UPSC rank and becoming the state's first female ______.

Δns

1. India Police Service Officer

X 2. Indian Administrative Service Officer

X 3. Education Commissioner

X 4. Revenue Officer

Question ID: 630680804275
Option 1 ID: 6306803150831
Option 2 ID: 6306803150832
Option 3 ID: 6306803150834
Option 4 ID: 6306803150833
Status: Not Answered

Chosen Option: --

Q.42 What balances the atmospheric pressure with equal force so that animals do not crumble under the high pressure exerted on them by the atmosphere?

Ans X

X 1. Moon's gravitational pull

2. Pressure because of sunlight

X 3. Energy produced by the food consumed

4. Blood Pressure

Question ID: 630680401765
Option 1 ID: 6306801566826
Option 2 ID: 6306801566827
Option 3 ID: 6306801566828
Option 4 ID: 6306801566829
Status: Answered

Chosen Option: 4

Q.43 'Ama Odisha Nabin Odisha' scheme was implemented by which department in July 2023 by Odisha Government?

Ans 🔀

★ 1. Health and Family Welfare Department

X 2. Housing and Urban Development

3. Panchayati Raj and Drinking Water Department

X 4. General Administration Department

Question ID : **630680411160** Option 1 ID : **6306801603396**

Option 2 ID : **6306801603397** Option 3 ID : **6306801603398** Option 4 ID : **6306801603399**

Status : **Answered**

Chosen Option: 2

Q.44 The Palamu plateau is located in which of the following states?

Ans

💢 1. Tripura

💢 2. Karnataka

X 3. Telangana

4. Jharkhand

Question ID: 630680511005

Option 1 ID : 6306801997151

Option 2 ID : 6306801997150

Option 3 ID : **6306801997153** Option 4 ID : **6306801997152**

Status: Not Answered





Q.45 Who among the following was one of the co-founders of the Swaraj Party within the Congress to argue for a return to council politics?

Ans X 1. Gopal Krishna Gokhale

2. Chittaranjan Das

X 3. Rabindranath Tagore

💢 4. Mahatma Gandhi

Question ID: 630680511623
Option 1 ID: 6306801999617
Option 2 ID: 6306801999616
Option 3 ID: 6306801999615
Option 4 ID: 6306801999614
Status: Not Answered

Chosen Option: --

Q.46 In which city is the Arun Jaitley Stadium located?

Ans 💜 1. New Delhi

X 2. Punjab

💢 3. Mumbai

X 4. Chennai

Question ID: 630680436045
Option 1 ID: 6306801702117
Option 2 ID: 6306801702118
Option 3 ID: 6306801702119
Option 4 ID: 6306801702120
Status: Not Answered

Chosen Option: --

Q.47 In which year did Louis Pasteur discover that yeast is responsible for producing alcohol from sugar?

Ans X 1. 1830

2. 1857

X 3. 1891

X 4. 1904

Adda 245

Option 1 ID: 630680404445

Option 1 ID: 6306801577280

Option 2 ID: 6306801577281

Option 3 ID: 6306801577282

Option 4 ID: 6306801577283

Status: Not Answered

Chosen Option : --

Q.48 Which of the following set of Articles of the Indian Constitution guarantees different types of freedoms to its citizens?

Ans X 1. Articles 14 – 19

✓ 2. Articles 19 – 22

X 3. Articles 25 – 30

X 4. Articles 32 – 35

Question ID: 630680493491
Option 1 ID: 6306801927702
Option 2 ID: 6306801927703
Option 3 ID: 6306801927704
Option 4 ID: 6306801927705
Status: Answered





Q.49 How does the formation of igneous rocks occur?

X 1. Formation through compression

2. Formation through volcanic activity

X 3. Formation through weathering

X 4. Formation through sedimentation

Question ID: 630680615260 Option 1 ID: 6306802407714 Option 2 ID: 6306802407715 Option 3 ID: 6306802407716 Option 4 ID: 6306802407717 Status: Answered

Chosen Option: 2

Q.50 What are 'Bullets' in Microsoft Word?

X 1. Characters used for decoration Ans

2. Small dots, squares, dashes, or graphics preceding text

X 3. Large circles indicating importance

X 4. Highlighted text

Question ID: 630680670146 Option 1 ID: 6306802624160 Option 2 ID: 6306802624161 Option 3 ID: 6306802624162 Option 4 ID: 6306802624163

Status: Answered

Chosen Option: 2

Section: General Engineering Mechanical

Q.1 The ignition coil of an IC engine stores the energy in its

Ans X 1. resistor

2. magnetic field

X 3. capacitor

X 4. electric field

Question ID: 630680502675

Option 1 ID: 6306801964285

Option 2 ID: 6306801964283

Option 3 ID: 6306801964284

Option 4 ID: 6306801964282

Status: Answered





Q.2 The pressure, which is measured with reference to absolute vacuum pressure is called:

Ans X 1. vacuum pressure

X 2. atmospheric pressure

X 3. gauge pressure

4. absolute pressure

Question ID: 630680508640
Option 1 ID: 6306801987861
Option 2 ID: 6306801987862
Option 3 ID: 6306801987860
Option 4 ID: 6306801987863
Status: Answered

Chosen Option: 4

Q.3 In case of a flat pivot bearing, which of the following options is correct about the sliding friction?

₹ 2. The sliding friction consideration is along the vertical curved surface of contact between the pivot and the shaft.

✗ 3. There is no sliding friction between the pivot and the shaft.

✓ 4. The sliding friction consideration is along the flat surface of contact between the pivot and the shaft.

Question ID : 630680509137

Option 1 ID : 6306801989845

Option 2 ID : 6306801989844

Option 3 ID : 6306801989846

Option 4 ID : 6306801989843

Status : Answered

Chosen Option: 2

Q.4 Coefficient of discharge (C_d) of a flow-measuring device is defined as the _____

Ans X 1. ratio of theoretical discharge to actual discharge

2. ratio of actual discharge to theoretical discharge

X 3. product of actual discharge and theoretical discharge

X 4. product of cross-sectional area and velocity

24/7

Question ID : 630680193042 Option 1 ID : 630680748706 Option 2 ID : 630680748705 Option 3 ID : 630680748707 Option 4 ID : 630680748708

Status: Answered





Q.5 Which of the following assertions holds true when a constant volume of gas is heated?

Ans X 1. The temperature of the gas remains constant

2. The heat added to the gas is equal to the change in internal energy

X 3. The change in enthalpy of the gas is zero

X 4. The work done by the gas is a finite value

Question ID: 630680503193
Option 1 ID: 6306801966360
Option 2 ID: 6306801966358
Option 3 ID: 6306801966359
Option 4 ID: 6306801966357
Status: Answered

Chosen Option: 2

Q.6 Which of the following is NOT a type of friction?

Ans 1. Kinematic friction

X 2. Kinetic friction

X 3. Static friction

X 4. Dynamic friction

Question ID: 630680394587 Option 1 ID: 6306801538634 Option 2 ID: 6306801538635 Option 3 ID: 6306801538637 Option 4 ID: 6306801538636 Status: Answered

Chosen Option: 1

Q.7 Determine the torsional rigidity of a hollow shaft of 200 mm external diameter and 150 mm internal diameter. Consider G = 90 GPa.

Ans

X 1.

X 2.

3.

X 4.

Question ID : **630680205981** Option 1 ID : **630680798729**

Option 2 ID : **630680798727** Option 3 ID : **630680798730** Option 4 ID : **630680798728**

Status: Not Answered





Q.8 Which of the following statements is true about the Carnot cycle?

Ans X 1. Its efficiency depends only on the pressure difference between the two reservoirs.

2. It is a reversible cycle.

3. It involves only two reversible isothermal processes.

★ 4. The efficiency of the Carnot cycle is always less than that of any other heat engine
operating between the same two temperatures.

Question ID: 630680503233
Option 1 ID: 6306801966519
Option 2 ID: 6306801966517
Option 3 ID: 6306801966518
Option 4 ID: 6306801966520
Status: Answered

Chosen Option : 2

Q.9 Which of the following methods is NOT used for the leakage detection of CFC refrigerants?

Ans X 1. Halide torch

X 2. Electronic leak detection device

3. Burning candle

X 4. Soap solution

Question ID: 630680506408
Option 1 ID: 6306801979147
Option 2 ID: 6306801979148
Option 3 ID: 6306801979146
Option 4 ID: 6306801979145
Status: Not Answered

Chosen Option : --

Q.10 A system undergoes a process in which it absorbs 500 J of heat and does 250 J of work. What is the change in the internal energy of the system?

Ans X 1. 750 J

X 2. −250 J

※ 3. −750 J

√ 4. 250 J

Adda 247

Question ID: 630680503213
Option 1 ID: 6306801966440
Option 2 ID: 6306801966438
Option 3 ID: 6306801966437
Option 4 ID: 6306801966439
Status: Answered

Chosen Option : 4

Q.11 The value of specific gravity of mercury is _____

Ans X 1. 0.136

X 2. 1.36

3. 13.6

X 4. 0.0012

Question ID : **630680508721** Option 1 ID : **6306801988186**

Option 2 ID : **6306801988185** Option 3 ID : **6306801988187** Option 4 ID : **6306801988184**

Status : Answered





Q.12 Which of the following equations is based on the fact that the mass flow rate at any section remains constant?

Ans X 1. Steady flow energy equation

X 2. Bernoulli's equation

3. Continuity equation

4. Momentum equation

Question ID: 630680502702
Option 1 ID: 6306801964392
Option 2 ID: 6306801964393
Option 3 ID: 6306801964390
Option 4 ID: 6306801964391
Status: Answered

Chosen Option: 3

Q.13 Which pressure indicates the difference between the atmospheric pressure and the absolute pressure?

Ans 💜 1. Vacuum pressure

X 2. System pressure

X 3. Gauge pressure

X 4. Local atmospheric pressure

Question ID : 630680508741

Option 1 ID: **6306801988264** Option 2 ID: **6306801988266** Option 3 ID: **6306801988265**

Option 4 ID : **6306801988267** Status : **Answered**

Chosen Option: 3

Q.14 When a system expands freely against vacuum, then work transfer involved is:

Ans X 1. negative

2. zero

X 3. positive

X 4. either positive or negative

Question ID: 630680404004

Option 1 ID: 6306801575503

Option 2 ID: 6306801575504

Option 3 ID : **6306801575502** Option 4 ID : **6306801575505**

Status : Answered

Chosen Option : 2

Q.15 A quick return motion mechanism used in shaper machine

Ans X 1. Maximize the time of forward stroke

X 2. Reduce the motion of the machine

4. Complete cutting stroke as quickly as possible

Question ID : 630680503270

Option 1 ID: 6306801966668

Option 2 ID : **6306801966665**

Option 3 ID : **6306801966666** Option 4 ID : **6306801966667**

Status : Answered





Q.16 Ans **X** 2. **X** 3. **X** 4. Question ID: 630680502686 Option 1 ID: 6306801964328 Option 2 ID: 6306801964326 Option 3 ID: 6306801964329 Option 4 ID: 6306801964327 Status: Answered Chosen Option: 1 Q.17 In a P-V diagram, if pV = Constant, then the process is called _ X 1. constant-volume process X 2. adiabatic process X 3. constant-pressure process 4. isothermal process Question ID : 630680503228 Option 1 ID: 6306801966497 Option 2 ID: 6306801966500 Option 3 ID: 6306801966499 Option 4 ID: 6306801966498 Status : Answered Chosen Option: 2 Q.18 Mention the sequence of points that mild steel material undergoes failure by referring to the stress strain diagram. X 1. Yielding, Elastic Deformation, Strain Hardening, Necking, Fracture Ans 2. Elastic Deformation, Yielding, Strain Hardening, Necking, Fracture X 3. Elastic Deformation, Strain Hardening, Yielding, Necking, Fracture 💢 4. Yielding, Elastic Deformation, Necking, Strain Hardening,Fracture Question ID : 630680205972 Option 1 ID: 630680798693 Option 2 ID: 630680798691 Option 3 ID: 630680798692 Option 4 ID: 630680798694 Status: Answered Chosen Option: 3





Q.19 The correct relationship between the coefficient of friction (µ) and the angle of friction

:(ф) is

Ans \times 1. $\mu = \cot \phi$

√ 2. μ = tan φ

X 3. μ = sin φ

× 4. μ = cos φ

Question ID: 630680509605
Option 1 ID: 6306801991642
Option 2 ID: 6306801991641
Option 3 ID: 6306801991644
Option 4 ID: 6306801991643
Status: Answered

Chosen Option: 2

Q.20 Which of the following statements is INCORRECT about atmospheric pressure?

Ans 1. The equivalent value of atmospheric pressure is 10.3 cm of water.

2. Atmospheric pressure is also called barometric pressure.

3. Atmospheric pressure varies with altitude.

4. The atmospheric air exerts normal pressure upon all the surfaces in contact.

Question ID: 630680193057 Option 1 ID: 630680748768 Option 2 ID: 630680748767 Option 3 ID: 630680748766 Option 4 ID: 630680748765 Status: Answered

Chosen Option: 1

Q.21 In an open channel flow, which device increases the enthalpy of gas using external work transfer?

Ans X 1. Turbine

X 2. Motor

X 3. Boiler

✓ 4. Compressor

Question ID: 630680503242 Option 1 ID: 6306801966554

Option 2 ID : 6306801966556 Option 3 ID : 6306801966553 Option 4 ID : 6306801966555 Status : Answered

Chosen Option: 3

Q.22 Which of the following are fire tube boilers?

Ans X 1. Loeffler boilers

X 2. Benson boilers

3. Scotch-marine boilers

X 4. Stirling boilers

Question ID : 630680503267

Option 1 ID : **6306801966656**Option 2 ID : **6306801966655**

Option 3 ID : **6306801966654** Option 4 ID : **6306801966653**

Status : Answered





Q.23 In case of two-stroke petrol engines, if exhaust gases do NOT leave the cylinder, then:

Ans X 1. fresh charge gets diluted and efficiency of the engine increases

2. fresh charge gets diluted and efficiency of the engine decreases

💢 3. fresh charge gets diluted and efficiency of the engine remains unchanged

4. fresh charge gets diluted and performance of the engine increases

Question ID : 630680181693
Option 1 ID : 630680704016
Option 2 ID : 630680704017
Option 3 ID : 630680704014
Option 4 ID : 630680704015
Status : Answered

Chosen Option: 2

Q.24 Which of the following materials is commonly used as a cutting tool material?

Ans X 1. Aluminium

2. Diamond

X 3. Copper

X 4. Brass

Question ID: 630680503218
Option 1 ID: 6306801966457
Option 2 ID: 6306801966459
Option 3 ID: 6306801966460
Option 4 ID: 6306801966458
Status: Answered

Chosen Option : 2

Q.25 Under ideal conditions, for a drop of 80 kJ/kg enthalpy, what will be the approximate velocity of steam at the outlet of the nozzle if the inlet velocity of the steam is 2 m/s?

Ans X 1. 13 m/s

X 2. 120 m/s

√ 3. 400 m/s

X 4. 410 m/s

Question ID: 630680503258

Option 1 ID: 6306801966619

Option 2 ID: 6306801966620

Option 3 ID : **6306801966617** Option 4 ID : **6306801966618**

Status : Answered

Chosen Option: 3

Q.26 The difference between the total head at the outlet of a centrifugal pump and the total head at the inlet of a centrifugal pump is called ______.

Ans X 1. suction head

X 2. dynamic head

💢 3. static head

4. manometric head

Question ID : 630680198965

Option 1 ID: 630680771589

Option 2 ID : 630680771590

Option 3 ID : **630680771587** Option 4 ID : **630680771588**

Status : Answered





Q.27 According to the second law of thermodynamics, work is said to be ___ heat is said to be X 1. high-grade energy; high-grade energy Ans 2. low-grade energy; low-grade energy √ 3. high-grade energy; low-grade energy X 4. low-grade energy; high-grade energy Question ID: 630680503231 Option 1 ID: 6306801966510 Option 2 ID: 6306801966512 Option 3 ID: 6306801966509 Option 4 ID: 6306801966511 Status: Answered Chosen Option: 3 Q.28 Sulphur dioxide refrigerant can be designated as: Ans X 1. R-729 X 2. R-744 X 3. R-727 4. R-764 Question ID: 630680348156 Option 1 ID: 6306801354915 Option 2 ID: 6306801354914 Option 3 ID: 6306801354913 Option 4 ID: 6306801354916 Status: Not Answered Chosen Option: --Q.29 The Zenith carburettor is a type of X 1. multiple-venturi carburettor Ans X 2. constant-vacuum carburettor 3. constant-choke carburettor X 4. multijet carburettor Question ID: 630680502728 Option 1 ID: 6306801964496 Option 2 ID: 6306801964495 Option 3 ID: 6306801964494 Option 4 ID: 6306801964497 Status: Not Answered Chosen Option: --Q.30 For a winter air-conditioning system, relative humidity should NOT be more than:

Ans X 1. 75%

X 2. 60%

3. 40%

X 4. 90%

Question ID : **630680348154** Option 1 ID : **6306801354906**

Option 2 ID : **6306801354905** Option 3 ID : **6306801354908** Option 4 ID : **6306801354907**

Status : Not Answered





Q.31 The bearing surface provided at any position along the shaft (but not at the end of the shaft) to carry the axial thrust, is known as X 1. flat bearing surface X 2. truncated bearing surface 3. conical bearing surface 🥒 4. collar Question ID: 630680227832 Option 1 ID: 630680884003 Option 2 ID: 630680884006 Option 3 ID: 630680884005 Option 4 ID: 630680884004 Status : Answered Chosen Option: 3 Q.32 In the P-H diagram of the vapour compression cycle, the compression process is shown by a/an 1. inclined straight line with a negative slope X 2. curved line 3. inclined straight line with a positive slope X 4. vertical line Question ID: 630680506444 Option 1 ID: 6306801979292 Option 2 ID: 6306801979290 Option 3 ID: 6306801979291 Option 4 ID: 6306801979289 Status: Answered Chosen Option: 1 Q.33 Which of the following expressions gives the area of flow for a Kaplan turbine? Where, D = diameter, B = width of vane, D₀ = outer diameter of runner, D_b = diameter of Ans **X** 1. **X** 3. **4**. Question ID : 630680508730 Option 1 ID: 6306801988220 Option 2 ID: 6306801988223 Option 3 ID: 6306801988222 Option 4 ID: 6306801988221 Status: Not Answered Chosen Option: --





Q.34 Which of the following statements is/are correct regarding Fire Tube Boilers?

1)In fire tube boilers, the hot gases are inside the tubes and water surrounds the tubes.

2)Cochran boiler is a type of fire tube boiler.

3)Stirling boiler is a type of fire tube boiler.

Ans X 1. 1 and 3

2. 1 and 2

X 3. 2 and 3

X 4. Only 1

Question ID: 630680395229

Option 1 ID : 6306801541127

Option 2 ID: 6306801541125

Option 3 ID : **6306801541126** Option 4 ID : **6306801541124**

Status : Answered

Chosen Option: 1

Q.35 ______ is the machining process that uses a saw blade to remove material from a

workpiece.

Ans X 1. Drilling

💢 2. Filing

X 3. Turning

4. Sawing

Question ID: 630680503219

Option 1 ID: 6306801966461

Option 2 ID: 6306801966462

Option 3 ID : **6306801966464** Option 4 ID : **6306801966463**

Status : Answered

Chosen Option: 4

Q.36 Which of the following statements is INCORRECT about the Cochran boiler?

Ans X 1. The Cochran boiler is a multi-tubular boiler.

✓ 2. The Cochran boiler is an externally fired boiler.

✗ 3. The Cochran boiler is a natural circulation type boiler.

X 4. The Cochran boiler is a vertical boiler.

Question ID : 630680502642

Option 1 ID: 6306801964151

Option 2 ID: 6306801964150

Option 3 ID: 6306801964153

Option 4 ID: 6306801964152

Status: Not Answered





Q.37 Calculate the minimum diameter of the shaft, such that the shearing stress does NOT exceed 50 N/mm² during torque transmission of 15000 N-m.

Ans

X 1. 120.6 mm

X 2. 98.4 mm

X 3. 100.2 mm

√ 4. 115.2 mm

Question ID: 630680205984

Option 1 ID : 630680798741

Option 2 ID : **630680798742** Option 3 ID : **630680798740**

Option 4 ID : **630680798739** Status : **Not Answered**

Chosen Option : --

Q.38 Manometric efficiency of a centrifugal pump is defined as the ____

Ans X 1. ratio of the power available at the impeller to the power at the shaft

X 2. difference of the manometric head and the static head

3. ratio of the manometric head to the head imparted by the impeller

4. ratio of the actual discharge to the theoretical discharge

Question ID: 630680198964

Option 1 ID: 630680771585

Option 2 ID: 630680771586

Option 3 ID: 630680771583

Option 4 ID : **630680771584**Status : **Not Answered**

Chosen Option: --

Q.39 Chezy's equation is applicable for:

Ans

X 1. steady internal flow

X 2. transient internal flow

X 4. transient open flow

Question ID: 630680508618

Option 1 ID: 6306801987773

Option 2 ID: 6306801987772

Option 3 ID : **6306801987775**

Option 4 ID: 6306801987774

Status: Not Answered





Q.40 The right limb of a simple manometer containing mercury is open to atmosphere. The left limb is connected to a pipe in which a fluid of specific gravity 0.9 is flowing. The centre of the pipe is 12 cm below the level of mercury in the right limb. The difference of mercury level in the two limbs is 20 cm. What is the pressure of fluid in the pipe $(take g = 10 m/s^2)$?

Ans

X 1. 27200 N/m²

2. 26480 N/m²

X 3. 27920 N/m²

X 4. 720 N/m²

Question ID: 630680199001

Option 1 ID: 630680771732 Option 2 ID: 630680771731

Option 3 ID: 630680771733 Option 4 ID: 630680771734

Status: Answered

Chosen Option: 2

Q.41 In which of the following turbines, the ends of the blades are welded to disks to form a cage like a hamster cage and instead of the bars, the turbine has the trough-shaped steel blades?

X 1. Pelton turbine

X 2. Kaplan turbine

X 3. Francis turbine

4. Cross-flow turbine

Question ID: 630680508630

Option 1 ID: 6306801987820 Option 2 ID: 6306801987823

Option 3 ID: 6306801987821

Option 4 ID: 6306801987822

Status: Not Answered

Chosen Option: --

Q.42 The data for an impulse steam turbine are given as follows.

(i) Mean blade velocity = 400 m/s

(ii) Absolute velocity of steam at the inlet to the moving blade = 1200 m/s

(iii) Sum of velocities of whirl at the inlet and the outlet of the blade = 1500 m/s

What will be the efficiency of the blade?

Ans

X 1. 0.42

X 2. 0.5

3. 0.83 **X** 4. 0.67

Question ID: 630680502689

Option 1 ID: 6306801964338

Option 2 ID: 6306801964339

Option 3 ID: 6306801964341

Option 4 ID: 6306801964340 Status: Not Answered





Q.43 The continuous injection system usually has a _ X 1. plunger pump X 2. gear pump X 3. vane pump 4. rotary pump Question ID : 630680502731 Option 1 ID : **6306801964506** Option 2 ID: 6306801964508 Option 3 ID: 6306801964509 Option 4 ID: 6306801964507 Status: Not Answered Chosen Option: --Q.44 In a vapour absorption refrigeration system, heating, cooling and refrigeration take place at the temperatures of 100°C, 20°C and -5°C, respectively. Find the maximum C.O.P. of the system. X 1. 1.5 **X** 2. 2.7 **3**. 2.3 **X** 4. 1.8 Question ID: 630680506400 Option 1 ID: 6306801979113 Option 2 ID: 6306801979116 Option 3 ID: 6306801979115 Option 4 ID: 6306801979114 Status: Not Answered Chosen Option: --Q.45 The product of the area of the surface and the intensity of pressure at the centroid of the area is called X 1. pressure density X 2. buoyant force X 3. viscous force 4. total pressure Question ID: 630680508738 Option 1 ID: 6306801988252 Option 2 ID: 6306801988254 Option 3 ID: 6306801988255 Option 4 ID: 6306801988253 Status: Answered Chosen Option: 2





Q.46 What is the SI unit of surface tension? Ans **X** 1. **X** 2. **X** 4. Question ID: 630680198996 Option 1 ID: 630680771714 Option 2 ID: 630680771712 Option 3 ID: 630680771711 Option 4 ID: 630680771713 Status: Answered Chosen Option: 3 Q.47 In a vapour compression refrigeration system, the lowest temperature during the cycle is observed after: 1. evaporation Ans X 2. compression X 3. expansion X 4. condensation Question ID: 630680506389 Option 1 ID: 6306801979071 Option 2 ID: 6306801979070 Option 3 ID: 6306801979072 Option 4 ID: 6306801979069 Status: Answered Chosen Option: 2 Q.48 The boiling point of inorganic refrigerant R-744 is **Ans** X 1. -15.8°C ✓ 2. -73.6°C X 3. +22.4°C X 4. +33.6°C Question ID: 630680506404 Option 1 ID: 6306801979131 Option 2 ID: 6306801979130 Option 3 ID: 6306801979132 Option 4 ID: 6306801979129 Status : Not Answered Chosen Option : --





Q.49 Which of the following types of cast iron is the hardest among all?

Ans

√ 1. White cast iron

X 2. Brittle cast iron

X 3. Ductile cast iron

X 4. Gray cast iron

Question ID : 630680191552

Option 1 ID: 630680742829

Option 2 ID: 630680742832

Option 3 ID: 630680742831

Option 4 ID : **630680742830** Status : **Answered**

Chosen Option : 4

Q.50 Which of the following is NOT a component of a hydroelectric power plant?

Ans

X 1. Surge tank

2. Condenser

X 3. Penstock

X 4. Tailrace

Question ID: 630680193064

Option 1 ID: 630680748794

Option 2 ID : **630680748796** Option 3 ID : **630680748793**

Option 4 ID : **630680748795**

Status: Not Answered

Chosen Option: --

Q.51 For which of the following fluids is the rate of deformation proportional to the shear stress?

Ans

💢 1. Blood

2. Gasoline

X 3. Rice starch

X 4. Milk

Question ID: 630680508715

Option 1 ID: 6306801988162

Option 2 ID : 6306801988161

Option 3 ID : **6306801988163**

Option 4 ID: 6306801988160

Status : **Not Answered** Chosen Option : --

Q.52 Which of the following statements is INCORRECT about the high-pressure and lowwater safety alarm in a steam boiler?

Ans

1. The high-pressure and low-water safety alarm has two valves.

X 2. The high-pressure and low-water safety alarm is a safety mounting against high pressure and low water levels.

X 4. The high-pressure and low-water safety alarm operates with loud noise.

Question ID : 630680502646

Option 1 ID: 6306801964169

Option 2 ID : 6306801964166

Option 3 ID: 6306801964167

Option 4 ID : **6306801964168** Status : **Not Answered**





Q.53 Which of the following is NOT a function of lubricating oils used in refrigerants?

Ans X 1. Transferring heat from the crank-case to the compressor

2. Sealing the gas between the suction and discharge ports

3. Decreasing the coolant temperature and hence increasing COP

X 4. Minimising friction

Question ID: 630680506446
Option 1 ID: 6306801979299
Option 2 ID: 6306801979298
Option 3 ID: 6306801979300
Option 4 ID: 6306801979297
Status: Not Answered

Chosen Option: --

Q.54 Which of the following is a requirement of a good ignition system?

Ans 1. It should give good performance at low speed but at high-speed, performance doesn't matter.

2. It should be as small as possible in size.

4. It should have very low spark duration.

Question ID: 630680502669
Option 1 ID: 6306801964259
Option 2 ID: 6306801964261
Option 3 ID: 6306801964260
Option 4 ID: 6306801964258
Status: Answered

Chosen Option: 4

Q.55 Which of the following types of steam nozzle is suitable for use when the inlet steam velocity is very low and the outlet steam velocity is desired to be supersonic?

Ans X 1. Divergent nozzle

2. Convergent-divergent nozzle

X 3. Divergent-convergent nozzle

X 4. Convergent nozzle

Question ID: 630680502701
Option 1 ID: 6306801964387
Option 2 ID: 6306801964388
Option 3 ID: 6306801964389
Option 4 ID: 6306801964386
Status: Not Answered

Chosen Option : --

Q.56 When a body is immersed in a fluid, upward force exerted by the fluid is equal to the

Ans X 1. volume of water displaced by the body

X 2. weight of the body

3. weight of the fluid displaced by the body

X 4. density of the Body

Question ID : 630680202479
Option 1 ID : 630680785157
Option 2 ID : 630680785156
Option 3 ID : 630680785155
Option 4 ID : 630680785158

Status : Answered





Q.57 ______ is a type of rolling process used in metalworking.

Ans

X 1. Injection moulding

2. Powder metallurgy

X 4. Hydroforming

Question ID: 630680503238 Option 1 ID: 6306801966540 Option 2 ID: 6306801966538 Option 3 ID: 6306801966539 Option 4 ID: 6306801966537

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

Q.58 Identify the operation of production of flat vertical surfaces on both sides of a

workpiece by using two side milling cutters mounted on the same arbor.

Δns

X 1. Side milling

X 2. Gang milling

3. Straddle milling

X 4. Face milling

Question ID : 630680205085 Option 1 ID : 630680795205 Option 2 ID : 630680795203 Option 3 ID : 630680795204 Option 4 ID : 630680795206

Status: Answered

Chosen Option : 4

Q.59 Which part of the lathe has a long shaft with the keyway extending from the feed box across and in front of the bed?

Ans X 1. Headstock spindle

2. Feed rod

X 3. Sliding gear shaft

X 4. Lead screw

Question ID: 630680205072

Option 1 ID : 630680795153 Option 2 ID : 630680795152 Option 3 ID : 630680795154 Option 4 ID : 630680795151

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

Q.60 The area under a P-V diagram represents _____

Ans X 1. the efficiency of the system

X 2. the heat added to the system

X 3. the heat rejected by the system

Question ID : 630680503227

Option 1 ID : **6306801966496** Option 2 ID : **6306801966494**

Option 3 ID : **6306801966495** Option 4 ID : **6306801966493**

Status : Answered





Q.61 For ammonia refrigerating systems, the tubes of a shell and tube condenser are made

of_____.

Ans X 1. aluminium

2. steel

X 3. copper

X 4. brass

Question ID: 630680506430 Option 1 ID: 6306801979234 Option 2 ID: 6306801979235 Option 3 ID: 6306801979233

Option 4 ID : 6306801979236 Status : Not Answered

Chosen Option: --

Q.62 In case of a single stage centrifugal compressor, the compression ratio that an impeller can develop is limited to about:

Ans X 1. 3.5

X 2. 4.0

3. 4.5

X 4. 3.0

Question ID : 630680506441

Option 1 ID: 6306801979279 Option 2 ID: 6306801979280 Option 3 ID: 6306801979278

Option 4 ID : **6306801979277**Status : **Not Answered**

Chosen Option : --

Q.63 Which of the following is an advantage of multistage reciprocating air compressor?

Ans X 1. Lubrication improved due to lower temperature

2. Volumetric efficiency increases for the same pressure ratio

3. Less expensive with longer life

X 4. Chance of leakage loss is low

Question ID: 630680502678

Option 1 ID: 6306801964295

Option 2 ID : **6306801964294** Option 3 ID : **6306801964296**

Option 4 ID : 6306801964297

Status : Not Answered

Chosen Option : --

Q.64 Which of the following governing methods is used for gas engines?

Ans X 1. Controlled governing

X 2. Quality governing

3. Hit-and-miss governing

4. Quantity governing

Question ID : 630680502725

Option 1 ID: 6306801964485

Option 2 ID : **6306801964483**

Option 3 ID : **6306801964482** Option 4 ID : **6306801964484**

Status: Not Answered





Q.65 Which of the following statements is INCORRECT about the friction factor of Darcy's equation?

Ans X 1. The value of friction factor depends on the Reynolds number of the flow.

2. Friction factor is a dimensionless quantity.

X 3. The value of friction factor depends on the roughness condition of the pipe surface.

4. Friction factor value is same for all the flow conditions.

Question ID: 630680198986
Option 1 ID: 630680771674
Option 2 ID: 630680771671
Option 3 ID: 630680771673
Option 4 ID: 630680771672
Status: Not Answered

Chosen Option: --

Q.66 Which of the following statements is correct about slotting process?

Ans X 1. Both, tool and workpiece can reciprocate according to the size of slotting machine and workpiece.

X 2. The tool reciprocates horizontally and the workpiece is fed into the cutting tool.

✗ 3. The workpiece reciprocates horizontally and the tool is fed in.

✓ 4. The tool reciprocates vertically and the workpiece is fed into the cutting tool.

Question ID: 630680503252
Option 1 ID: 6306801966596
Option 2 ID: 6306801966593
Option 3 ID: 6306801966595
Option 4 ID: 6306801966594
Status: Not Answered

Chosen Option: --

Q.67 If the indicated power and frictional power of an engine are 100 KW and 25 KW, respectively, then what will be the brake power of the engine?

Ans X 1. 62.5 KW

X 2. 125 KW

X 3. 50 KW

Question ID: 630680382396

Option 1 ID: 6306801490502

Option 2 ID : **6306801490499**

Option 3 ID: 6306801490500

Option 4 ID : **6306801490501**

Status: Answered





Q.68 Which of the following moulding techniques uses a sand and clay mixture as the mould material?

Ans 1. Green sand moulding

X 2. Investment casting

X 3. Die casting

X 4. Shell moulding

Question ID: 630680503203
Option 1 ID: 6306801966398
Option 2 ID: 6306801966399
Option 3 ID: 6306801966400
Option 4 ID: 6306801966397
Status: Answered

Chosen Option: 1

Q.69 At absolute zero temperature (T = 0K), the specific enthalpy of an ideal gas is:

Ans 🚀 1. 0

X 2. infinite

X 3. 1

X 4. <0

Question ID: 630680404000 Option 1 ID: 6306801575486 Option 2 ID: 6306801575488 Option 3 ID: 6306801575487 Option 4 ID: 6306801575489 Status: Answered

Chosen Option: 1

Q.70 In chemical machining, material is removed from the work piece by _

Ans X 1. chemical burning

2. chemical dissolution

X 3. chemical evaporation

X 4. erosion

Question ID: 630680503250
Option 1 ID: 6306801966587
Option 2 ID: 6306801966588
Option 3 ID: 6306801966585
Option 4 ID: 6306801966586
Status: Answered

Chosen Option : 2

Q.71 Which of the following statements is true for magneto ignition system?

Ans X 1. More frequent maintenance is required compared to coil ignition system.

2. Its intensity of spark is very good even at low speed.

X 3. It is simpler in construction than coil ignition system.

√ 4. The efficiency of the system improves as the engine speed increases.

Question ID: 630680502670
Option 1 ID: 6306801964264
Option 2 ID: 6306801964263
Option 3 ID: 6306801964262
Option 4 ID: 6306801964265
Status: Not Answered





Q.72 The fully halogenated refrigerants with chlorine (CI) atom in their molecules are referred to as:

Ans X

X 1. HCFC refrigerants

2. CFC refrigerants

X 3. inorganic refrigerants

X 4. hydro-carbon refrigerants

Question ID: 630680506412
Option 1 ID: 6306801979163
Option 2 ID: 6306801979164
Option 3 ID: 6306801979162
Option 4 ID: 6306801979161
Status: Not Answered

Chosen Option: --

Q.73 What is the purpose of a pattern in the casting pattern procedure?

Ans X 1. To pour molten metal into the mould cavity

2. To create the mould cavity

X 3. To remove the casting from the mould

X 4. To clean the mould before casting

Question ID: 630680503201
Option 1 ID: 6306801966390
Option 2 ID: 6306801966389
Option 3 ID: 6306801966391
Option 4 ID: 6306801966392
Status: Answered

Chosen Option: 2

Q.74 In which of the following types of draught is air forced into the boiler under pressure by a fan?

Ans X 1. Natural draught

2. Forced draught

X 3. Steam jet draught

X 4. Induced draught

Question ID: 630680502652

Option 1 ID: 6306801964190 Option 2 ID: 6306801964191 Option 3 ID: 6306801964193

Option 4 ID : **6306801964192**Status : **Answered**

Chosen Option : 4

$\ensuremath{\mathsf{Q.75}}$ Which shielding gas is commonly used in TIG welding?

Ans X 1. Carbon dioxide

X 2. Oxygen

3. Argon

X 4. Hydrogen

Question ID : 630680205052

Option 1 ID : **630680795071** Option 2 ID : **630680795072** Option 3 ID : **630680795073**

Option 4 ID : **630680795074**Status : **Answered**





Q.76 In a side milling cutter, the angle between the cleared flank of the blade and a tangent to the periphery in a diametral plane passing through the cutting edge is called

Ans

✓ 1. peripheral clearance angle

2. peripheral relief angle

X 3. face relief angle

X 4. face clearance angle

Question ID: 630680205086

Option 1 ID: 630680795210 Option 2 ID: 630680795208

Option 3 ID: 630680795209 Option 4 ID: 630680795207

Status: Not Answered

Chosen Option: --

Q.77 Which of the following forced convection evaporator units have a discharge air rate from 60 m/min to 90 m/min?

Ans

1. Frosting evaporators

2. Defrosting evaporators

3. High velocity cooling forced convection evaporators

4. Low velocity cooling forced convection evaporators

Question ID : 630680506424 Option 1 ID: 6306801979209 Option 2 ID: 6306801979210 Option 3 ID: 6306801979211

Option 4 ID: 6306801979212 Status: Not Answered

Chosen Option: --

Q.78 What is the order of temperature generated at the anode during arc generation in electric arc welding?

X 1. 2000°C

✓ 2. 6000°C

X 3. 3500°C

X 4. 4500°C

Question ID: 630680211303

Option 1 ID: 630680819359

Option 2 ID: 630680819361

Option 3 ID: 630680819360

Option 4 ID: 630680819362

Status: Not Answered





Q.79 Free expansion process is ______.

Λne

X 1. a reversible process

X 2. initially it is reversible and later it become irreversible

4. sometimes reversible and sometimes irreversible

Question ID: 630680503255
Option 1 ID: 6306801966605
Option 2 ID: 6306801966608
Option 3 ID: 6306801966606
Option 4 ID: 6306801966607
Status: Answered

Chosen Option: 3

Q.80 Vertical depth of any point below the free surface in a liquid at rest is known as

Δns

✓ 1. pressure head

X 2. velocity head

X 3. datum head

X 4. total head

Question ID : 630680193060 Option 1 ID : 630680748777 Option 2 ID : 630680748779 Option 3 ID : 630680748778 Option 4 ID : 630680748780 Status : Answered

Chosen Option: 4

Q.81 The pressure at any point in a fluid at rest has the same magnitude in all the directions. This fact is known as ______.

Ans

X 1. the pressure law

X 2. Bernoulli's law

3. Pascal's law

X 4. Newton's law

Question ID: 630680193058

Option 1 ID: 630680748772 Option 2 ID: 630680748769 Option 3 ID: 630680748770 Option 4 ID: 630680748771

Status : Answered





Q.82 Consider an air standard cycle in which the air enters the compressor at 1.0 bar and 20°C. The pressure of air leaving the compressor is 3.5 bar and the temperature at the turbine inlet is 600°C. For 1 kg of air, determine the efficiency of the cycle:

Ans

1

X 2.

X 3.

X 4.

Question ID: 630680502754

Option 1 ID : **6306801964600** Option 2 ID : **6306801964598** Option 3 ID : **6306801964599**

Option 4 ID : **6306801964601**

Status: Not Answered

Chosen Option : --

Q.83 The boiling point of refrigerant R-13 is _____

Ans X 1. +86.6°C

X 2. -107.7°C

√ 3. -81.4°C

X 4. - 157.5°C

Question ID : 630680506407

Option 1 ID: 6306801979142 Option 2 ID: 6306801979141 Option 3 ID: 6306801979143 Option 4 ID: 6306801979144

Status : Not Answered

Chosen Option: --

Q.84 If 'u' is the velocity of the runner and 'V' is the velocity of the jet at inlet, what is the

condition for the maximum hydraulic efficiency of a Pelton wheel?

Ans X 1. V = u

🗙 2. V = u/2

✓ 3. V = 2u

X 4. V = 3u

Question ID : 630680199990

Option 1 ID: 630680775406

Option 2 ID : **630680775407** Option 3 ID : **630680775405**

Option 4 ID : **630680775408**

Status: Not Answered





Q.85 Internal combustion engines have _____.

Ans X 1. lower thermal efficiency than external combustion engine

2. higher thermal efficiency than external combustion engine

3. high initial cost compared to external combustion engine

X 4. low power to weight ratio compared to external combustion engine

Question ID: 630680502662
Option 1 ID: 6306801964231
Option 2 ID: 6306801964230
Option 3 ID: 6306801964233
Option 4 ID: 6306801964232
Status: Answered

Chosen Option: 2

Q.86 Brake power involves determination of the:

Ans X 1. inertia and displacement of the shaft

X 2. piston indicator

X 3. pressure and piston displacement

Question ID : 630680181703
Option 1 ID : 630680704055
Option 2 ID : 630680704057
Option 3 ID : 630680704056
Option 4 ID : 630680704054
Status : Answered

Chosen Option: 3

Q.87 In a single stationary blade type rotary compressor, a blade is set into the slot of a cylinder in such a manner that it always maintains contact with the roller by means of:

Ans X 1. centrifugal force

2. spring

X 3. gravity

X 4. cam and follower

Question ID : 630680506438 Option 1 ID : 6306801979267

Option 2 ID: 6306801979268 Option 3 ID: 6306801979266 Option 4 ID: 6306801979265 Status: Not Answered

Chosen Option : --

 $\ensuremath{\mathsf{Q.88}}$ The total pressure acting on any immersed body is independent of:

Ans X 1. the density of liquid

X 2. the depth of C.G. of body from free surface of liquid

X 4. the surface area of body

Question ID: 630680508634

Option 1 ID : **6306801987836** Option 2 ID : **6306801987838** Option 3 ID : **6306801987839**

Option 4 ID : **6306801987837** Status : **Not Answered**





Q.89 Pump disassembling is NOT necessary in ______.

Ans

√ 1. open impellers

X 2. semi-open impellers

X 3. cannot be predicted

¥ 4. closed impellers

Question ID : **630680508725** Option 1 ID : **6306801988200**

Option 2 ID : **6306801988202** Option 3 ID : **6306801988203** Option 4 ID : **6306801988201**

Status : Answered

Chosen Option : 1

Q.90 For the given overall heat transfer coefficient and temperature difference, if the area of evaporator surface increases, then the capacity of evaporator:

Ans

X 1. remains constant

2. increases

X 3. decreases

X 4. can increase or decrease

Question ID: 630680506425

Option 1 ID : **6306801979216** Option 2 ID : **6306801979214** Option 3 ID : **6306801979213**

Option 4 ID : **6306801979215** Status : **Answered**

Chosen Option: 2

Q.91 Which of the following statements is INCORRECT about the steam separator in a steam boiler?

Ans X 1. In the steam separator, water separates out from steam due to its greater inertia.

X 2. In the steam separator, steam is made to change its direction of flow.

✓ 3. Steam separator is provided to collect the water resulting from partial condensation
of steam.

X 4. Steam separator is also known as steam drier.

Question ID: 630680502655

Option 1 ID : 6306801964202

Option 2 ID : 6306801964203

Option 3 ID: 6306801964205

Option 4 ID: 6306801964204

Status: Not Answered





Q.92 The condition of equilibrium states that a stationary body that is subjected to coplanar forces will be in equilibrium if the algebraic sum of all the and the algebraic sum _ of all the external forces about any point in their plane is zero. 1. internal forces; moment 2. external forces; moment X 3. internal forces; couple 4. external forces; couple Question ID: 630680394575 Option 1 ID: 6306801538588 Option 2 ID: 6306801538587 Option 3 ID: 6306801538586 Option 4 ID: 6306801538589 Status: Answered Chosen Option: 2 Q.93 When there is a ___ ____, work is transferred over the system boundary in an open system. X 1. change in the potential energy of the fluid Ans X 2. difference in datum head between the system and surroundings 3. change in the kinetic energy of the fluid Question ID : 630680503175 Option 1 ID: 6306801966286 Option 2 ID: 6306801966288 Option 3 ID : **6306801966285** Option 4 ID: 6306801966287 Status: Answered Chosen Option: 4 Q.94 The enthalpy of an open system Ans ✓ 1. increases as energy is added to the system 2. remains constant X 3. decreases as energy is added to the system X 4. is not a meaningful concept Question ID: 630680503209 Option 1 ID: 6306801966422 Option 2 ID: 6306801966421 Option 3 ID: 6306801966423 Option 4 ID: 6306801966424 Status: Answered Chosen Option: 1 Q.95 Which of the following statements is correct in case of semi-open impeller? **Ans** X 1. Both sides of the impeller vanes are covered with baseplates. 2. One side of the impeller vanes is covered with a baseplate. 3. Both sides of the impeller vanes are covered with crown plates. 4. Impeller vanes are not covered with baseplates. Question ID: 630680198975 Option 1 ID: 630680771627

Question ID : 630680198975 Option 1 ID : 630680771627 Option 2 ID : 630680771628 Option 3 ID : 630680771630 Option 4 ID : 630680771629 Status : Answered





Q.96 Which of the following is the condition of the maximum discharge of flue gases through a chimney in a steam boiler?

Ans 1. The temperature of flue gases is slightly greater than twice the atmospheric temperature in Kelvin units.

 χ 2. The maximum discharge of flue gases through a chimney does not depend on the temperature of flue gases in the steam boiler.

X 3. The temperature of flue gases is exactly equal to twice the atmospheric temperature in Kelvin units.

X 4. The temperature of flue gases is equal to the atmospheric temperature in Kelvin units.

Question ID: 630680502650
Option 1 ID: 6306801964184
Option 2 ID: 6306801964185
Option 3 ID: 6306801964183
Option 4 ID: 6306801964182
Status: Not Answered

Chosen Option: --

Q.97 In the study of flow of fluid in pipes, total energy line is also known as

Ans X 1. hydraulic gradient line

X 2. pressure line

3. energy gradient line

X 4. piezometric head line

Question ID : 630680198987 Option 1 ID : 630680771675 Option 2 ID : 630680771676 Option 3 ID : 630680771678 Option 4 ID : 630680771677 Status : Not Answered

Chosen Option : --

Q.98 The ratio of the actual brake thermal efficiency obtained from an engine to the theoretical efficiency of the engine cycle is called:

Ans 1. relative efficiency

X 2. combustion efficiency

X 3. brake thermal efficiency

X 4. scavenging efficiency

Question ID: 630680348136

Option 1 ID: 6306801354834

Option 2 ID: 6306801354835

Option 3 ID: 6306801354833

Option 4 ID: 6306801354836

Status : Answered





Q.99 Which of the following is the chemical formula of hydro-carbon refrigerant R-170?

Ans

✓ 1. C₂ H₆

X 2. C₃ H₃

X 3. C₄ H₁₀

X 4. C₃ H₆

Question ID : **630680506406**

Option 1 ID: 6306801979138

Option 2 ID: 6306801979137

Option 3 ID: 6306801979139

Option 4 ID: 6306801979140

Status: Not Answered

Chosen Option: --

Q.100 What will be the average pressure in plate clutch when the axial force is 4 kN. The inside radius of the contact surface is 50 mm and the outside radius is 100 mm. Assume uniform wear.

Λne

X 1. 17 N/mm²

× 2. 0.17 N/m²

√ 3. 0.17 N/mm²

X 4. 1.7 N/mm²

Question ID: 630680227842

Option 1 ID: 630680884044

Option 2 ID: 630680884046

Option 3 ID: 630680884045

Option 4 ID: 630680884043

Status: Not Answered

