NHPC
JE

Previous Year Paper
(Mechanical)
29 Oct, 2025 Shift 2

Participant ID	
Participant Name	
Test Center Name	
Test Date	29/10/2025
Test Time	2:00 PM - 5:00 PM
Subject	Junior Engineer Mechanical

Section : **General Awareness**

Q.1 Announced in 2025, which type of engine is ISRO developing for the Next Generation Launch Vehicle (NGLV)?

Ans
✗ 1. Solid-Powered Engine
✗ 2. Liquid Propellant Engine
✗ 3. Hybrid Rocket Engine
✓ 4. LOX-Methane Engine

Question ID : **441009151786**
Option 1 ID : **441009602309**
Option 2 ID : **441009602307**
Option 3 ID : **441009602308**
Option 4 ID : **441009602310**
Status : **Answered**
Chosen Option : **4**

Q.2 Which party emerged as the second largest in the 2024 Jammu and Kashmir Assembly elections?

Ans
✗ 1. People's Democratic Party
✗ 2. National Conference
✓ 3. Bharatiya Janata Party
✗ 4. Indian National Congress

Question ID : **441009151814**
Option 1 ID : **441009602422**
Option 2 ID : **441009602419**
Option 3 ID : **441009602421**
Option 4 ID : **441009602420**
Status : **Answered**
Chosen Option : **3**

Q.3 Which freedom fighter led the famous Bardoli Satyagraha against the Britishers?

Ans
✗ 1. Subhas Chandra Bose
✗ 2. Mahatma Gandhi
✗ 3. Motilal Nehru
✓ 4. Sardar Vallabhbhai Patel

Question ID : **44100980357**
Option 1 ID : **441009319213**
Option 2 ID : **441009319215**
Option 3 ID : **441009319212**
Option 4 ID : **441009319214**
Status : **Not Answered**
Chosen Option : **--**

Q.4 According to the Economic Survey 2024-25, how much did government health expenditure increase as a share of total health expenditure between FY15 and FY22?

Ans
✗ 1. 15.0% to 25.0%
✗ 2. 25.0% to 40.5%
✗ 3. 30.5% to 45.2%
✓ 4. 29.0% to 48.0%

Question ID : **441009114268**
Option 1 ID : **441009454536**
Option 2 ID : **441009454535**
Option 3 ID : **441009454534**
Option 4 ID : **441009454537**
Status : **Not Answered**
Chosen Option : **--**

Q.5 The Golden Quadrilateral project in India is primarily related to which sector?

Ans
✗ 1. Railways
✓ 2. Highways
✗ 3. Seaports
✗ 4. Airports

Question ID : **44100998797**
Option 1 ID : **441009393287**
Option 2 ID : **441009393288**
Option 3 ID : **441009393290**
Option 4 ID : **441009393289**
Status : **Answered**
Chosen Option : **2**

Q.6 Which dynasty emerged as a dominant power in Northern India after the decline of the Gupta Empire?

Ans
✗ 1. Chalukyas
✗ 2. Pallavas
✗ 3. Mauryans
✓ 4. Pushyabhutis

Question ID : **44100980319**
Option 1 ID : **441009319062**
Option 2 ID : **441009319061**
Option 3 ID : **441009319060**
Option 4 ID : **441009319063**
Status : **Not Answered**
Chosen Option : **--**

Q.7 Which of the following is India's first national park?

Ans
1. Gir National Park
2. Sundarbans National Park
3. Kaziranga National Park
4. Jim Corbett National Park

Question ID : **44100996398**
Option 1 ID : **441009383636**
Option 2 ID : **441009383637**
Option 3 ID : **441009383638**
Option 4 ID : **441009383639**
Status : **Answered**
Chosen Option : **4**

Q.8 As per the Economic Survey 2024-25, what was the estimated growth rate of the industrial sector in FY25?

Ans
1. 6.2%
2. 9.8%
3. 3.5%
4. 15.1%

Question ID : **441009114257**
Option 1 ID : **441009454495**
Option 2 ID : **441009454496**
Option 3 ID : **441009454494**
Option 4 ID : **441009454497**
Status : **Not Answered**
Chosen Option : **--**

Q.9 When was Shahid Bhagat Singh hanged?

Ans
1. 1932
2. 1931
3. 1922
4. 1925

Question ID : **44100980354**
Option 1 ID : **441009319202**
Option 2 ID : **441009319201**
Option 3 ID : **441009319203**
Option 4 ID : **441009319200**
Status : **Answered**
Chosen Option : **2**

Q.10 Among the given options, which of the following States of India has the least number of MPs in the Rajya Sabha?

Ans
1. Himachal Pradesh
2. Madhya Pradesh
3. Haryana
4. Rajasthan

Question ID : **44100996153**
Option 1 ID : **441009382649**
Option 2 ID : **441009382646**
Option 3 ID : **441009382647**
Option 4 ID : **441009382648**
Status : **Not Answered**
Chosen Option : **--**

Q.11 What is an oasis in the Thar Desert?

Ans
✔ 1. A fertile area with water
✘ 2. A dry river bed
✘ 3. A desert storm
✘ 4. A large sand dune

Question ID : **44100996451**
Option 1 ID : **441009383859**
Option 2 ID : **441009383856**
Option 3 ID : **441009383857**
Option 4 ID : **441009383858**
Status : **Not Answered**
Chosen Option : **--**

Q.12 What was the purpose of Operation Brahma in March 2025?

Ans
✔ 1. Earthquake relief assistance to Myanmar
✘ 2. Diplomatic mission
✘ 3. Trade agreement between India and Myanmar
✘ 4. Military exercise

Question ID : **441009151797**
Option 1 ID : **441009602354**
Option 2 ID : **441009602353**
Option 3 ID : **441009602352**
Option 4 ID : **441009602351**
Status : **Answered**
Chosen Option : **1**

Q.13 What is the primary objective of the Dx-EDGE initiative launched in 2025?

Ans
✘ 1. To promote foreign investments in India
✘ 2. To provide financial subsidies to large corporations
✘ 3. To regulate e-commerce businesses
✔ 4. To empower MSMEs with digital tools and knowledge

Question ID : **441009119317**
Option 1 ID : **441009474389**
Option 2 ID : **441009474387**
Option 3 ID : **441009474390**
Option 4 ID : **441009474388**
Status : **Not Answered**
Chosen Option : **--**

Q.14 Which Five-Year Plan of Government of India was terminated one year before its scheduled completion due to economic instability?

Ans
✔ 1. Fifth Five-Year Plan
✘ 2. Second Five-Year Plan
✘ 3. Eight Five-Year Plan
✘ 4. Third Five-Year Plan

Question ID : **44100998826**
Option 1 ID : **441009393403**
Option 2 ID : **441009393404**
Option 3 ID : **441009393405**
Option 4 ID : **441009393406**
Status : **Not Answered**
Chosen Option : **--**

Q.15 Who was honoured with the Best Actor in a Leading Role award at the 70th National Film Awards in 2024?

Ans
✔ 1. Rishab Shetty
✘ 2. Allu Arjun
✘ 3. Ayushmann Khurrana
✘ 4. Vicky Kaushal

Question ID : **441009114331**
Option 1 ID : **441009454783**
Option 2 ID : **441009454784**
Option 3 ID : **441009454782**
Option 4 ID : **441009454785**
Status : **Not Answered**
Chosen Option : **--**

Q.16 Where were the National Games, 2025, held?

Ans
✔ 1. Uttarakhand
✘ 2. Rajasthan
✘ 3. Madhya Pradesh
✘ 4. Himachal Pradesh

Question ID : **441009119298**
Option 1 ID : **441009474311**
Option 2 ID : **441009474314**
Option 3 ID : **441009474313**
Option 4 ID : **441009474312**
Status : **Answered**
Chosen Option : **2**

Q.17 What was the approximate total budget allocated to the Ministry of Youth Affairs and Sports in 2025?

Ans
✘ 1. ₹4,200 crore
✘ 2. ₹5,232 crore
✔ 3. ₹3,794 crore
✘ 4. ₹2,534 crore

Question ID : **441009131653**
Option 1 ID : **441009523200**
Option 2 ID : **441009523201**
Option 3 ID : **441009523199**
Option 4 ID : **441009523198**
Status : **Not Answered**
Chosen Option : **--**

Q.18 Where are coniferous forests commonly found in India?

Ans
✘ 1. Indo-Gangetic Plains
✔ 2. Himalayan Region
✘ 3. Deccan Plateau
✘ 4. Thar Desert

Question ID : **44100996433**
Option 1 ID : **441009383785**
Option 2 ID : **441009383786**
Option 3 ID : **441009383787**
Option 4 ID : **441009383784**
Status : **Not Answered**
Chosen Option : **--**

Q.19 Which of the following are used as a common salt in food?

Ans
✗ 1. Potassium sulphate
✗ 2. Magnesium sulphate
✗ 3. Sodium bicabonate
✓ 4. Sodium chloride

Question ID : **44100988704**
Option 1 ID : **441009352818**
Option 2 ID : **441009352816**
Option 3 ID : **441009352817**
Option 4 ID : **441009352815**
Status : **Answered**
Chosen Option : **4**

Q.20 Which site is known for rock-cut architecture and Buddhist murals from the 2nd century BCE?

Ans
✓ 1. Ajanta Caves
✗ 2. Chennakeshava Temple
✗ 3. Virupaksha Temple
✗ 4. Badami Temple

Question ID : **44100980711**
Option 1 ID : **441009320612**
Option 2 ID : **441009320613**
Option 3 ID : **441009320611**
Option 4 ID : **441009320610**
Status : **Not Answered**
Chosen Option : **--**

Q.21 The region in the Great Indian Plains where rivers deposit new fertile soil annually is known as:

Ans
✗ 1. Banger
✓ 2. Khadar
✗ 3. Terai
✗ 4. Bhabar

Question ID : **44100996454**
Option 1 ID : **441009383869**
Option 2 ID : **441009383868**
Option 3 ID : **441009383871**
Option 4 ID : **441009383870**
Status : **Not Answered**
Chosen Option : **--**

Q.22 Which revolutionary leader was associated with the assassination attempt on British official Kingsford in 1908?

Ans
✗ 1. Rajnarayan Bose
✓ 2. Khudiram Bose
✗ 3. Ashwini Kumar Dutt
✗ 4. Aurobindo Ghosh

Question ID : **44100980402**
Option 1 ID : **441009319388**
Option 2 ID : **441009319389**
Option 3 ID : **441009319391**
Option 4 ID : **441009319390**
Status : **Not Answered**
Chosen Option : **--**

Q.23 The 42nd Amendment of the Constitution of India was enacted in which year?

Ans
✗ 1. 1990
✓ 2. 1976
✗ 3. 1946
✗ 4. 1972

Question ID : **44100996104**
Option 1 ID : **441009382446**
Option 2 ID : **441009382449**
Option 3 ID : **441009382448**
Option 4 ID : **441009382447**
Status : **Answered**
Chosen Option : **2**

Q.24 What was India's rank in the Global Innovation Index 2024?

Ans
✗ 1. 32nd
✗ 2. 50th
✗ 3. 25th
✓ 4. 39th

Question ID : **441009151799**
Option 1 ID : **441009602359**
Option 2 ID : **441009602360**
Option 3 ID : **441009602362**
Option 4 ID : **441009602361**
Status : **Not Answered**
Chosen Option : **--**

Q.25 When was the Steel Authority of India Limited set up for the industrial development in India?

Ans
✗ 1. 1946
✗ 2. 1987
✓ 3. 1973
✗ 4. 1990

Question ID : **44100998811**
Option 1 ID : **441009393345**
Option 2 ID : **441009393344**
Option 3 ID : **441009393343**
Option 4 ID : **441009393346**
Status : **Answered**
Chosen Option : **3**

Q.26 Who wrote the book 'The New Icon: Savarkar and the Facts', released in 2025?

Ans
✗ 1. Vikram Sampath
✗ 2. Anirban Ganguly
✗ 3. Rajiv Malhotra
✓ 4. Arun Shourie

Question ID : **441009114324**
Option 1 ID : **441009454752**
Option 2 ID : **441009454751**
Option 3 ID : **441009454750**
Option 4 ID : **441009454753**
Status : **Not Answered**
Chosen Option : **--**

Q.27 Which constitutional amendments aimed to restore democratic principles and safeguard fundamental rights?

Ans
1. 54th (1978)
2. 44th (1978)
3. 40th (1978)
4. 64th (1978)

Question ID : **44100996099**
Option 1 ID : **441009382426**
Option 2 ID : **441009382428**
Option 3 ID : **441009382427**
Option 4 ID : **441009382429**
Status : **Answered**
Chosen Option : **2**

Q.28 Bibek Debroy, awarded with Padma Bhushan, 2025, was known for his contributions in which field?

Ans
1. Literature
2. Economics
3. Politics
4. Sports

Question ID : **441009131650**
Option 1 ID : **441009523188**
Option 2 ID : **441009523189**
Option 3 ID : **441009523186**
Option 4 ID : **441009523187**
Status : **Not Answered**
Chosen Option : **--**

Q.29 Which article of the Directive Principles of the State Policy states that it is the duty of the State to secure Uniform Civil Code for the citizens throughout the country?

Ans
1. Article 40
2. Article 42
3. Article 44
4. Article 34

Question ID : **44100996085**
Option 1 ID : **441009382360**
Option 2 ID : **441009382359**
Option 3 ID : **441009382358**
Option 4 ID : **441009382361**
Status : **Not Answered**
Chosen Option : **--**

Q.30 In which classical dance form does the dancer depict stories from Ramayana and Mahabharata through elaborate facial expressions and hand gestures?

Ans
✗ 1. Odissi
✗ 2. Kathak
✓ 3. Kathakali
✗ 4. Bharatnatyam

Question ID : **44100980724**
Option 1 ID : **441009320663**
Option 2 ID : **441009320665**
Option 3 ID : **441009320664**
Option 4 ID : **441009320662**
Status : **Answered**
Chosen Option : **4**

Section : **Reasoning**

Q.1 Two sets of numbers are given below. In each set of numbers, certain mathematical operation(s) on the first number result(s) in the second number. Similarly, certain mathematical operation(s) on the second number result(s) in the third number and so on. Which of the given options follows the same set of operations as in the given sets? (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 to/subtracting from/multiplying with 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed.)
10-12-14-28;
11-13-15-30

Ans
✗ 1. 20-22-24-96
✗ 2. 6-8-12-24
✗ 3. 10-12-16-36
✓ 4. 15-17-19-38

Question ID : **4410091312748**
Option 1 ID : **4410095182697**
Option 2 ID : **4410095182699**
Option 3 ID : **4410095182698**
Option 4 ID : **4410095182700**
Status : **Answered**
Chosen Option : **4**

Q.2 Which of the following letter-number clusters will replace the question mark (?) in the given series to make it logically complete?
YJN 5, WHL 13, UFJ 21, SDH 29, ?

Ans
✗ 1. QBG 39
✗ 2. PAE 35
✗ 3. RBE 37
✓ 4. QBF 37

Question ID : **4410091313658**
Option 1 ID : **4410095186333**
Option 2 ID : **4410095186334**
Option 3 ID : **4410095186331**
Option 4 ID : **4410095186332**
Status : **Answered**
Chosen Option : **4**

Q.3 What should come in place of the question mark (?) in the given series?

35 48 64 83 105 130 ?

Ans
✗ 1. 163
✗ 2. 149
✗ 3. 155
✓ 4. 158

Question ID : **4410091312767**
Option 1 ID : **4410095182775**
Option 2 ID : **4410095182774**
Option 3 ID : **4410095182773**
Option 4 ID : **4410095182776**
Status : **Answered**
Chosen Option : **4**

Q.4 In a certain code language,

'A + B' means 'A is the mother of B',
'A – B' means 'A is the brother of B',
'A x B' means 'A is the wife of B' and
'A ÷ B' means 'A is the father of B'.

How is P related to T if 'P ÷ Q x R – S + T'?

Ans
✗ 1. Father's brother's wife's brother
✓ 2. Mother's brother's wife's father
✗ 3. Father's brother's wife's father
✗ 4. Mother's brother's wife's brother

Question ID : **4410091313793**
Option 1 ID : **4410095186874**
Option 2 ID : **4410095186871**
Option 3 ID : **4410095186873**
Option 4 ID : **4410095186872**
Status : **Answered**
Chosen Option : **2**

Q.5 Based on the English alphabetical order, three of the following four letter-cluster pairs are alike in a certain way and thus form a group. Which letter-cluster pair DOES NOT belong to that group?
(Note: The odd one out is not based on the number of consonants/vowels or their position in the letter-cluster.)

Ans
✗ 1. JS-RY
✗ 2. UD-CJ
✗ 3. YH-GN
✓ 4. LU-TY

Question ID : **4410091313764**
Option 1 ID : **4410095186756**
Option 2 ID : **4410095186757**
Option 3 ID : **4410095186758**
Option 4 ID : **4410095186755**
Status : **Answered**
Chosen Option : **4**

Q.6 What will come in place of the question mark (?) in the following equation if '÷' and '–' are interchanged and '×' and '+' are interchanged?

114 – 6 ÷ 3 + 2 × 8 = ?

Ans
1. 17
2. 21 ✓
3. 23
4. 20

Question ID : **441009531903**
Option 1 ID : **4410092083019**
Option 2 ID : **4410092083017**
Option 3 ID : **4410092083016**
Option 4 ID : **4410092083018**
Status : **Answered**
Chosen Option : **2**

Q.7 Refer to the given letter series and answer the question that follows. Counting to be done from left to right only.

(Left) C D P B Q L M O A J K T S N F G R E H W Y (Right)

How many such consonants are there, each of which is immediately preceded by a vowel and also immediately followed by a vowel?

Ans
1. Three
2. One
3. None ✓
4. Two

Question ID : **441009793056**
Option 1 ID : **4410093126226**
Option 2 ID : **4410093126224**
Option 3 ID : **4410093126223**
Option 4 ID : **4410093126225**
Status : **Answered**
Chosen Option : **3**

Q.8 A, B, C, D, E, F and G are sitting around a circular table, facing the centre of the table. B sits third to the right of A. G sits to the immediate left of A. E sits second to the right of G. F sits to the immediate right of D. Who sits second to the left of C?

Ans
1. G
2. D
3. F
4. A ✓

Question ID : **441009755584**
Option 1 ID : **4410092976330**
Option 2 ID : **4410092976332**
Option 3 ID : **4410092976331**
Option 4 ID : **4410092976329**
Status : **Answered**
Chosen Option : **4**

Q.9 C, D, E, F, G, H and I live on six different floors of the same building. The lowermost floor in the building is numbered 1, the floor above it is numbered 2 and so on, till the topmost floor is numbered 6. H lives on an odd numbered floor but not on floor number 5. Only two people live between C and D. F lives immediately below E. D lives on an even numbered floor. Only three people live between E and G. On which floor does F live?

Ans
1. Floor number 4
2. Floor number 5
3. Floor number 2
4. Floor number 3

Question ID : **4410091313665**
Option 1 ID : **4410095186361**
Option 2 ID : **4410095186359**
Option 3 ID : **4410095186362**
Option 4 ID : **4410095186360**
Status : **Answered**
Chosen Option : **2**

Q.10 Two sets of numbers are given below. In each set of numbers, certain mathematical operation(s) on the first number result(s) in the second number. Similarly, certain mathematical operation(s) on the second number result(s) in the third number and so on. Which of the given options follows the same set of operations as in the given sets? (Note: A two/three digit number cannot be broken into individual digits for operations, e.g., if 37 is followed by 10, the operation cannot be 3 + 7 as a two-digit number cannot be broken into individual digits.)

38 - 266 - 532 - 544
13 - 91 - 182 - 194

Ans
1. 12 - 96 - 288 - 300
2. 15 - 105 - 210 - 222
3. 25 - 155 - 465 - 478
4. 22 - 154 - 770 - 782

Question ID : **441009552766**
Option 1 ID : **4410092166379**
Option 2 ID : **4410092166378**
Option 3 ID : **4410092166380**
Option 4 ID : **4410092166381**
Status : **Answered**
Chosen Option : **2**

Q.11 Each of A, B, I, J, O, P and S has an exam on a different day of a week starting from Monday and ending on Sunday of the same week.
Only one person has exam after S. Only one person has exam between S and B. Exactly four people have their exams between J and S.
A has an exam immediately before P. I does not have an exam on Friday.
How many people have exams before O?

Ans
1. Four
2. Two
3. Three
4. One

Question ID : **4410091313709**
Option 1 ID : **4410095186535**
Option 2 ID : **4410095186537**
Option 3 ID : **4410095186536**
Option 4 ID : **4410095186538**
Status : **Answered**
Chosen Option : **1**

Q.12 Refer to the given number series and answer the question that follows. Counting to be done from left to right only. All numbers are single-digit numbers.

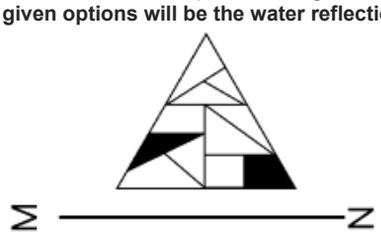
(Left) 8 3 6 2 7 1 9 4 5 2 8 3 7 4 9 6 1 9 2 5 6 8 7 6 3 9 4 1 2 6 7 (Right)

How many such odd digits are there each, of which is immediately preceded by an even digit and also immediately followed by an even digit?6949

Ans
✗ 1. Four
✓ 2. Six
✗ 3. Eight
✗ 4. Five

Question ID : **441009780868**
Option 1 ID : **4410093077478**
Option 2 ID : **4410093077476**
Option 3 ID : **4410093077477**
Option 4 ID : **4410093077475**
Status : **Answered**
Chosen Option : **2**

Q.13 If a water source is placed along M-N, as shown in the following figure, which of the given options will be the water reflection of the given figure?



Ans
✓ 1.


✗ 2.


✗ 3.


✗ 4.


Question ID : **441009864938**
Option 1 ID : **4410093412854**
Option 2 ID : **4410093412852**
Option 3 ID : **4410093412853**
Option 4 ID : **4410093412855**
Status : **Answered**
Chosen Option : **1**

Q.14 Refer to the given number, symbol series and answer the question that follows.
Counting to be done from left to right only. All numbers are single-digit numbers.
(Left) @ 5 % © € 7 @ @ @ 5 4 1 © $ & 1 8 @ £ @ 8 6 (Right)
How many such numbers are there, each of which is immediately preceded by a symbol and also immediately followed by a symbol?

Ans
1. 4
2. 2
3. 3
4. 1

Question ID : **441009793695**
Option 1 ID : **4410093128782**
Option 2 ID : **4410093128779**
Option 3 ID : **4410093128780**
Option 4 ID : **4410093128781**
Status : **Answered**
Chosen Option : **2**

Q.15 REST is related to QDRS in a certain way based on the English alphabetical order. In the same way, FOIL is related to ENHK. To which of the following is GULF related, following the same logic?

Ans
1. FTKE
2. FUHB
3. BSLF
4. FSJE

Question ID : **441009771618**
Option 1 ID : **4410093040465**
Option 2 ID : **4410093040468**
Option 3 ID : **4410093040466**
Option 4 ID : **4410093040467**
Status : **Answered**
Chosen Option : **1**

Q.16 What will come in place of the question mark (?) in the following equation if '+' and '–' are interchanged and '×' and '÷' are interchanged?

104 ÷ 9 + 999 × 9 − 2 = ?

Ans
1. 827
2. 826
3. 823
4. 825

Question ID : **4410091312804**
Option 1 ID : **4410095182924**
Option 2 ID : **4410095182923**
Option 3 ID : **4410095182921**
Option 4 ID : **4410095182922**
Status : **Answered**
Chosen Option : **1**

Q.17 In a certain code language, 'POET' is coded as '6428' and 'EARS' is coded as '3567'.
What is the code for 'E' in that language?

Ans
✔ 1. 6
✘ 2. 2
✘ 3. 3
✘ 4. 5

Question ID : **441009755635**
Option 1 ID : **4410092976533**
Option 2 ID : **4410092976534**
Option 3 ID : **4410092976535**
Option 4 ID : **4410092976536**
Status : **Not Answered**
Chosen Option : **--**

Q.18 Select the letter-cluster from among the given options that can replace the question mark (?) to complete the given series.

NDTK, MFQO, ? , KJKW, JLHA

Ans
✘ 1. LNHS
✘ 2. LDNS
✘ 3. LHNT
✔ 4. LHNS

Question ID : **4410091313943**
Option 1 ID : **4410095187474**
Option 2 ID : **4410095187473**
Option 3 ID : **4410095187472**
Option 4 ID : **4410095187471**
Status : **Answered**
Chosen Option : **4**

Q.19 In a certain code language,

'A + B' means 'A is the mother of B',
'A – B' means 'A is the brother of B',
'A x B' means 'A is the wife of B' and
'A ÷ B' means 'A is the father of B'.

How is P related to T if 'P x Q ÷ R + S – T'?

Ans
✘ 1. Mother's Sister
✘ 2. Father's Mother
✔ 3. Mother's Mother
✘ 4. Father's Sister

Question ID : **4410091313795**
Option 1 ID : **4410095186880**
Option 2 ID : **4410095186881**
Option 3 ID : **4410095186879**
Option 4 ID : **4410095186882**
Status : **Answered**
Chosen Option : **3**

Q.20 FING is related to OPTJ in a certain way based on the English alphabetical order. In the same way, PKLS is related to YRRV. To which of the following options is QFDB related, following the same logic?

Ans
✔ 1. ZMJE
✘ 2. ZMEJ
✘ 3. ZJME
✘ 4. ZJEM

Question ID : **4410091313830**
Option 1 ID : **4410095187019**
Option 2 ID : **4410095187020**
Option 3 ID : **4410095187021**
Option 4 ID : **4410095187022**
Status : **Answered**
Chosen Option : **1**

Q.21 Which of the given letter-clusters should replace # and % so that the pattern and relationship followed between the letter-cluster pair on the left side of :: is the same as that on the right side of :: ?

 # : PNL :: BZX : %

Ans
✘ 1. # = NLI , % = CAY
✘ 2. # = NNL , % = DBZ
✔ 3. # = NLJ , % = DBZ
✘ 4. # = NLJ , % = DAA

Question ID : **441009759059**
Option 1 ID : **4410092990232**
Option 2 ID : **4410092990231**
Option 3 ID : **4410092990229**
Option 4 ID : **4410092990230**
Status : **Answered**
Chosen Option : **3**

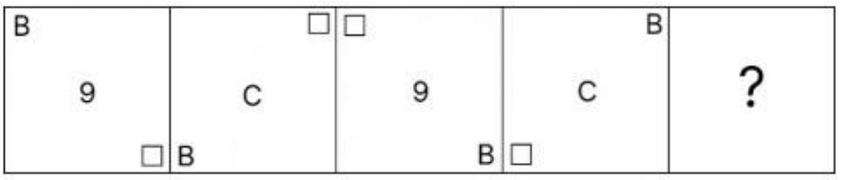
Q.22 What should come in place of the question mark (?) in the given series?

12, 24, 72, ?, 1440, 8640

Ans
✔ 1. 288
✘ 2. 218
✘ 3. 286
✘ 4. 222

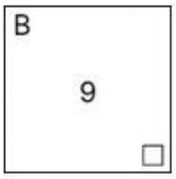
Question ID : **441009605260**
Option 1 ID : **4410092376158**
Option 2 ID : **4410092376160**
Option 3 ID : **4410092376157**
Option 4 ID : **4410092376159**
Status : **Answered**
Chosen Option : **1**

Q.23 Identify the figure given in the options which when put in place of the question mark (?) will logically complete the series.

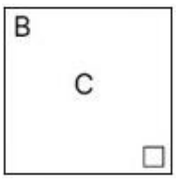


Ans

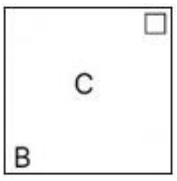
✔ 1.



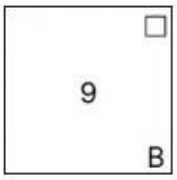
✘ 2.



✘ 3.



✘ 4.



Question ID : **4410096756 82**
Option 1 ID : **4410092656869**
Option 2 ID : **4410092656871**
Option 3 ID : **4410092656872**
Option 4 ID : **4410092656870**
Status : **Answered**
Chosen Option : **1**

Q.24 E, F, M, N, U and Y live on six different floors of the same building. The lowermost floor in the building is numbered 1, the floor above it is numbered 2 and so on, till the topmost floor is numbered 6.
Only three people live below U. Only two people live between U and N. Only E lives between U and M. F lives immediately below U. How many people live between Y and E?

Ans

✘ 1. One

✘ 2. Four

✔ 3. Two

✘ 4. Three

Question ID : **4410091313776**
Option 1 ID : **4410095186806**
Option 2 ID : **4410095186803**
Option 3 ID : **4410095186805**
Option 4 ID : **4410095186804**
Status : **Answered**
Chosen Option : **3**

Q.25 Based on the English alphabetical order, three of the following four letter-cluster pairs are alike in a certain way and thus form a group. Which letter-cluster pair DOES NOT belong to that group?
(Note: The odd one out is not based on the number of consonants/vowels or their position in the letter-cluster.)

Ans
✗ 1. RI-NL
✗ 2. SJ-OM
✓ 3. DU-ZA
✗ 4. ZQ-VT

Question ID : **4410091313779**
Option 1 ID : **4410095186816**
Option 2 ID : **4410095186818**
Option 3 ID : **4410095186815**
Option 4 ID : **4410095186817**
Status : **Answered**
Chosen Option : **3**

Q.26 In a certain code language, 'CATS' is coded as '3571' and 'TURN' is coded as '2438'. What is the code for 'T' in that language?

Ans
✓ 1. 3
✗ 2. 8
✗ 3. 2
✗ 4. 7

Question ID : **441009755632**
Option 1 ID : **4410092976521**
Option 2 ID : **4410092976524**
Option 3 ID : **4410092976522**
Option 4 ID : **4410092976523**
Status : **Not Answered**
Chosen Option : **--**

Q.27 A, B, C, D, E, F and G are sitting around a circular table, facing the centre of the table. A sits third to the left of E. C and B are immediate neighbours of E. F is an immediate neighbour of G. F sits third to the left of D. Who among the following is the neighbour of A?

Ans
✗ 1. E
✓ 2. D
✗ 3. F
✗ 4. C

Question ID : **441009755585**
Option 1 ID : **4410092976335**
Option 2 ID : **4410092976334**
Option 3 ID : **4410092976336**
Option 4 ID : **4410092976333**
Status : **Answered**
Chosen Option : **2**

Q.28 If ‘A’ stands for ‘÷’, ‘B’ stands for ‘×’, ‘C’ stands for ‘+’ and ‘D’ stands for ‘−’, then what will come in place of the question mark (?) in the following equation?

23 D 40 A 8 C 12 B 5 = ?

Ans
✗ 1. 75
✗ 2. 76
✓ 3. 78
✗ 4. 77

Question ID : **441009551801**
Option 1 ID : **4410092162518**
Option 2 ID : **4410092162519**
Option 3 ID : **4410092162521**
Option 4 ID : **4410092162520**
Status : **Answered**
Chosen Option : **3**

Q.29 Refer to the given letter and symbol series and answer the question that follows. Counting to be done from left to right only.

(Left) A P % ^ S T # P U M % P T M L J Z U # P S T L H & G # Z P % (Right)

If all the 'P's and '#'s are dropped from the above series, which is the eighth term from the left in the new series thus formed?17494

Ans
✗ 1. &
✗ 2. M
✗ 3. U
✓ 4. %

Question ID : **441009771530**
Option 1 ID : **4410093040116**
Option 2 ID : **4410093040115**
Option 3 ID : **4410093040114**
Option 4 ID : **4410093040113**
Status : **Answered**
Chosen Option : **4**

Q.30 A, B, C, D, E, F and G are sitting around a circular table facing the centre. Only G sits between C and E. E sits third to the left of D. F sits to the immediate left of D. B is not an immediate neighbour of E.
How many people live between B and G when counted from the right of G?

Ans
✗ 1. 1
✗ 2. 3
✗ 3. 2
✓ 4. 4

Question ID : **4410091313804**
Option 1 ID : **4410095186915**
Option 2 ID : **4410095186917**
Option 3 ID : **4410095186916**
Option 4 ID : **4410095186918**
Status : **Answered**
Chosen Option : **4**

Section : **Branch Specific (Mechanical)**

Q.1 What is one benefit of multi-stage compression in gas pipelines?

Ans
✗ 1. Reduces the need for lubricants
✗ 2. Decreases compression costs significantly
✗ 3. Simplifies pipeline design
✓ 4. Improves gas flow over long distances

Question ID : **441009120675**
Option 1 ID : **441009479738**
Option 2 ID : **441009479741**
Option 3 ID : **441009479740**
Option 4 ID : **441009479739**
Status : **Answered**
Chosen Option : **2**

Q.2 In the Rankine cycle, what is the purpose of the pump?

Ans
✗ 1. Increases temperature
✗ 2. Decreases entropy
✓ 3. Increases pressure
✗ 4. Decreases pressure

Question ID : **441009120065**
Option 1 ID : **441009477332**
Option 2 ID : **441009477333**
Option 3 ID : **441009477331**
Option 4 ID : **441009477334**
Status : **Answered**
Chosen Option : **3**

Q.3 What is the function of the combustion chamber in the Cochran Boiler?

Ans
✗ 1. To circulate water
✗ 2. To mix water and fuel
✓ 3. To burn fuel and produce heat
✗ 4. To store steam

Question ID : **441009106478**
Option 1 ID : **441009423934**
Option 2 ID : **441009423932**
Option 3 ID : **441009423933**
Option 4 ID : **441009423931**
Status : **Answered**
Chosen Option : **3**

Q.4 Which assumption is NOT required for the Continuity Equation to be valid?

Ans
✗ 1. Steady flow
✗ 2. Mass conservation
✗ 3. No-slip condition
✓ 4. External forces

Question ID : **441009125980**
Option 1 ID : **441009500646**
Option 2 ID : **441009500644**
Option 3 ID : **441009500647**
Option 4 ID : **441009500645**
Status : **Answered**
Chosen Option : **3**

Q.5 Entropy per unit mass is an intensive property and has the unit of _____.

Ans
✗ 1. kJ/K
✗ 2. kg/K
✓ 3. kJ/kg·K
✗ 4. kJ-kg/K

Question ID : **441009171055**
Option 1 ID : **441009677125**
Option 2 ID : **441009677128**
Option 3 ID : **441009677126**
Option 4 ID : **441009677127**
Status : **Answered**
Chosen Option : **3**

Q.6 Which of the following is a characteristic effect of using argon as a shielding gas in Metal Inert Gas (MIG) arc welding or Gas Metal Arc Welding (GMAW)?

Ans
✗ 1. It increases spatter and requires higher arc voltages for ionisation.
✓ 2. It enhances arc concentration, reduces spatter, and enables deep penetration.
✗ 3. It conducts heat rapidly from the arc to the weld zone, making it unsuitable for thin sheets.
✗ 4. It prevents spray transfer of metal, even when used in large proportions.

Question ID : **441009131849**
Option 1 ID : **441009523982**
Option 2 ID : **441009523983**
Option 3 ID : **441009523984**
Option 4 ID : **441009523985**
Status : **Answered**
Chosen Option : **2**

Q.7 Which valve allows air to enter the cylinder during the intake stroke?

Ans
✗ 1. Pressure relief valve
✓ 2. Suction valve
✗ 3. Check valve
✗ 4. Discharge valve

Question ID : **441009119524**
Option 1 ID : **441009475214**
Option 2 ID : **441009475213**
Option 3 ID : **441009475212**
Option 4 ID : **441009475211**
Status : **Answered**
Chosen Option : **2**

Q.8 The thermal efficiency of Otto cycle can be expressed as _____, where, Q_S = heat supplied and Q_R = heat rejected.

Ans
✗ 1. Qs / (Qs – QR)
✗ 2. Qs / QR
✗ 3. (Qs – QR)
✓ 4. (Qs – QR)/ Qs

Question ID : **441009187503**
Option 1 ID : **441009740562**
Option 2 ID : **441009740563**
Option 3 ID : **441009740564**
Option 4 ID : **441009740561**
Status : **Answered**
Chosen Option : **4**

Q.9 Why SHM is preferred for follower motion, in a cam mechanism?

Ans
✗ 1. It provides uniform acceleration and deceleration.
✓ 2. It minimises wear and tear.
✗ 3. It gives higher lift in lesser time.
✗ 4. It ensures constant velocity throughout.

Question ID : **441009100911**
Option 1 ID : **441009401654**
Option 2 ID : **441009401657**
Option 3 ID : **441009401655**
Option 4 ID : **441009401656**
Status : **Answered**
Chosen Option : **1**

Q.10 Which of the following factors primarily determines the cooling characteristics of a casting in Caine's method?

Ans
✗ 1. Ratio of metal density to mould material conductivity
✗ 2. Ratio of pouring temperature to solidification time
✗ 3. Ratio of mould thickness to riser height
✓ 4. Ratio of surface area to volume of the casting

Question ID : **441009131812**
Option 1 ID : **441009523832**
Option 2 ID : **441009523833**
Option 3 ID : **441009523830**
Option 4 ID : **441009523831**
Status : **Not Answered**
Chosen Option : **--**

Q.11 What type of velocity components are present in the velocity diagram of an impulse turbine?

Ans
✗ 1. Only tangential velocity
✗ 2. Only axial velocity
✓ 3. Absolute, relative and blade velocity components
✗ 4. Only absolute velocity

Question ID : **441009128131**
Option 1 ID : **441009509144**
Option 2 ID : **441009509146**
Option 3 ID : **441009509145**
Option 4 ID : **441009509143**
Status : **Answered**
Chosen Option : **3**

Q.12 When specifying a drilling machine, what does the term 'maximum drill size' refer to?

Ans
✗ 1. The maximum speed of the spindle
✓ 2. The largest diameter of the drill bit that can be used
✗ 3. The maximum depth the drill can reach
✗ 4. The size of the machine's base

Question ID : **441009229158**
Option 1 ID : **441009896267**
Option 2 ID : **441009896265**
Option 3 ID : **441009896266**
Option 4 ID : **441009896268**
Status : **Answered**
Chosen Option : **2**

Q.13 At which location is absolute pressure typically measured?

Ans
✗ 1. At the top of a mountain
✗ 2. Near the surface of the Earth
✗ 3. At sea level
✓ 4. In a vacuum or outer space

Question ID : **44100999735**
Option 1 ID : **441009396881**
Option 2 ID : **441009396880**
Option 3 ID : **441009396883**
Option 4 ID : **441009396882**
Status : **Answered**
Chosen Option : **4**

Q.14 Back gear used in simple lathe is part of which gear train?

Ans
✗ 1. Simple gear train
✗ 2. Epicyclic gear train
✓ 3. Reverted gear train
✗ 4. Compound gear train

Question ID : **441009160760**
Option 1 ID : **441009636791**
Option 2 ID : **441009636794**
Option 3 ID : **441009636792**
Option 4 ID : **441009636793**
Status : **Answered**
Chosen Option : **4**

Q.15 What is the purpose of providing a draft allowance in a pattern?

Ans
✗ 1. To minimise shrinkage defects in the casting
✗ 2. To improve the surface finish of the casting
✓ 3. To prevent mould damage during pattern removal
✗ 4. To increase the strength of the mould cavity

Question ID : **441009131779**
Option 1 ID : **441009523701**
Option 2 ID : **441009523700**
Option 3 ID : **441009523699**
Option 4 ID : **441009523698**
Status : **Answered**
Chosen Option : **3**

Q.16 What is the formula for determining the number of friction surfaces (n) for a multi-plate clutch?

Ans
✗ 1. n = number of driving plates + number of driven plates +1
✗ 2. n = number of driving plates + number of driven plates
✓ 3. n = number of driving plates + number of driven plates −1
✗ 4. n = number of driving plates − number of driven plates −1

Question ID : **44100999524**
Option 1 ID : **441009396034**
Option 2 ID : **441009396036**
Option 3 ID : **441009396033**
Option 4 ID : **441009396035**
Status : **Answered**
Chosen Option : **3**

Q.17 The formula for the polar moment of inertia of a hollow circular shaft with outer diameter 'D' and inner diameter 'd' is:

Ans
✔ 1. $J = \pi(D^4 - d^4)/32$
✘ 2. $J = \pi(D^4 + d^4)/32$
✘ 3. $J = \pi D^4/32$
✘ 4. $J = \pi d^4/32$

Question ID : **441009135054**
Option 1 ID : **441009536838**
Option 2 ID : **441009536839**
Option 3 ID : **441009536836**
Option 4 ID : **441009536837**
Status : **Answered**
Chosen Option : **1**

Q.18 A solid circular shaft with a radius of 50 mm is subjected to torsion. The maximum shear stress developed at the outer surface of the shaft is 80 MPa. The shear stress at a radius of 20 mm from the centre of the shaft is:

Ans
✘ 1. 24 MPa
✘ 2. 16 MPa
✘ 3. 8 MPa
✔ 4. 32 MPa

Question ID : **441009135108**
Option 1 ID : **441009537062**
Option 2 ID : **441009537061**
Option 3 ID : **441009537060**
Option 4 ID : **441009537063**
Status : **Answered**
Chosen Option : **4**

Q.19 Which of the following is used in a diesel engine for mixing fuel and air?

Ans
✘ 1. Exhaust valve
✘ 2. Carburettor
✘ 3. Spark plug
✔ 4. Fuel injector

Question ID : **441009176817**
Option 1 ID : **441009699172**
Option 2 ID : **441009699170**
Option 3 ID : **441009699169**
Option 4 ID : **441009699171**
Status : **Answered**
Chosen Option : **4**

Q.20 Which of the following is the correct expression for gauge pressure?

Ans
✔ 1. Gauge pressure = Absolute pressure − Atmospheric pressure
✘ 2. Gauge pressure = Absolute pressure + Amospheric pressure
✘ 3. Gauge pressure = Atmospheric pressure
✘ 4. Gauge pressure = Hydrostatic pressure + Atmospheric pressure

Question ID : **441009103344**
Option 1 ID : **441009411496**
Option 2 ID : **441009411498**
Option 3 ID : **441009411495**
Option 4 ID : **441009411497**
Status : **Answered**
Chosen Option : **1**

Q.21 The projection lines in orthographic projection are:

Ans
✗ 1. inclined
✗ 2. converging
✓ 3. perpendicular to the projection plane
✗ 4. diverging

Question ID : **441009226755**
Option 1 ID : **441009887853**
Option 2 ID : **441009887854**
Option 3 ID : **441009887855**
Option 4 ID : **441009887852**
Status : **Answered**
Chosen Option : **3**

Q.22 Which of the following engines operate in the way that the rate of burning can be controlled by the rate of injection of fuel?

Ans
✗ 1. External combustion engine
✓ 2. Compression-ignition engine
✗ 3. Dual combustion engine
✗ 4. Spark-ignition engine

Question ID : **441009176825**
Option 1 ID : **441009699204**
Option 2 ID : **441009699202**
Option 3 ID : **441009699203**
Option 4 ID : **441009699201**
Status : **Answered**
Chosen Option : **2**

Q.23 What is the main reason for cutting the runners in the cope and in-gates in the drag for ferrous metals?

Ans
✗ 1. To reduce the weight of the mould and make it easier to handle
✗ 2. To increase the speed of solidification of the molten metal
✗ 3. To improve the flow of molten metal into the mould cavity
✓ 4. To trap the slag and dross, which are lighter and tend to float on top

Question ID : **441009131756**
Option 1 ID : **441009523606**
Option 2 ID : **441009523609**
Option 3 ID : **441009523607**
Option 4 ID : **441009523608**
Status : **Answered**
Chosen Option : **3**

Q.24 Which of the following views causes an object to appear smaller than the actual size due to foreshortening?

Ans
✗ 1. Perspective view
✓ 2. Isometric projection
✗ 3. Isometric view
✗ 4. Orthographic view

Question ID : **441009229094**
Option 1 ID : **441009896016**
Option 2 ID : **441009896015**
Option 3 ID : **441009896014**
Option 4 ID : **441009896013**
Status : **Answered**
Chosen Option : **1**

Q.25 Which of the following tools is used for holding multiple cutters on a horizontal milling machine?

Ans
✗ 1. Mandrel
✗ 2. Vise
✗ 3. Chuck
✓ 4. Arbor

Question ID : **441009229435**
Option 1 ID : **441009897344**
Option 2 ID : **441009897343**
Option 3 ID : **441009897341**
Option 4 ID : **441009897342**
Status : **Answered**
Chosen Option : **4**

Q.26 The enthalpy of vapourisation is minimum at:

Ans
✗ 1. 373 K
✓ 2. critical temperature
✗ 3. absolute zero
✗ 4. triple point

Question ID : **441009163669**
Option 1 ID : **441009648320**
Option 2 ID : **441009648321**
Option 3 ID : **441009648319**
Option 4 ID : **441009648322**
Status : **Answered**
Chosen Option : **2**

Q.27 What is one of the main advantages of using the Babcock and Wilcox Boiler?

Ans
✓ 1. High fuel efficiency
✗ 2. Compact design
✗ 3. Low initial cost
✗ 4. Easy to maintain

Question ID : **441009106494**
Option 1 ID : **441009424003**
Option 2 ID : **441009424005**
Option 3 ID : **441009424006**
Option 4 ID : **441009424004**
Status : **Answered**
Chosen Option : **1**

Q.28 For a system, if the initial enthalpy of the substance is 40 kJ/kg and heat transferred at constant pressure to the system is 55 kJ/kg, then what will be the final enthalpy of the substance?

Ans
✗ 1. 15 kJ/kg
✓ 2. 95 kJ/kg
✗ 3. 75 kJ/kg
✗ 4. 60 kJ/kg

Question ID : **441009187703**
Option 1 ID : **441009741183**
Option 2 ID : **441009741184**
Option 3 ID : **441009741185**
Option 4 ID : **441009741186**
Status : **Answered**
Chosen Option : **2**

Q.29 Which of the following correctly describes an open impeller used in centrifugal pumps?

Ans
✗ 1. It has vanes enclosed between a crown plate and a base plate.
✗ 2. It has a partially enclosed design with a crown plate but no base plate.
✗ 3. It is used only for pumping clear water without suspended particles.
✓ 4. It has open vanes on both sides and lacks crown and base plates.

Question ID : **441009131407**
Option 1 ID : **441009522200**
Option 2 ID : **441009522201**
Option 3 ID : **441009522202**
Option 4 ID : **441009522199**
Status : **Answered**
Chosen Option : **4**

Q.30 A cone clutch with a cone angle that is too small will result in which of the following?

Ans
✗ 1. The torque transmission increases.
✗ 2. The slippage increases.
✗ 3. The clutch engagement becomes smoother.
✓ 4. The clutch may become self-locking.

Question ID : **441009100885**
Option 1 ID : **441009401550**
Option 2 ID : **441009401552**
Option 3 ID : **441009401551**
Option 4 ID : **441009401553**
Status : **Answered**
Chosen Option : **1**

Q.31 If the surfaces are rough, the friction between the two surfaces _____.

Ans
✓ 1. is more
✗ 2. is less
✗ 3. can't be determined
✗ 4. is zero

Question ID : **441009169208**
Option 1 ID : **441009669811**
Option 2 ID : **441009669812**
Option 3 ID : **441009669814**
Option 4 ID : **441009669813**
Status : **Answered**
Chosen Option : **1**

Q.32 Which of the following is a key advantage of submerged arc welding?

Ans
✗ 1. Good for thin sheets
✗ 2. No need for flux
✗ 3. Portable equipment
✓ 4. High deposition rate

Question ID : **441009161153**
Option 1 ID : **441009638281**
Option 2 ID : **441009638282**
Option 3 ID : **441009638283**
Option 4 ID : **441009638284**
Status : **Answered**
Chosen Option : **4**

Q.33 The throat diameter of a Venturi meter is one-third of the pipe diameter. If the velocity in the pipe is 2 m/s, what is the velocity at the throat (assuming ideal flow conditions)?

Ans
✗ 1. 9 m/s
✗ 2. 6 m/s
✓ 3. 18 m/s
✗ 4. 2 m/s

Question ID : **441009125428**
Option 1 ID : **441009498555**
Option 2 ID : **441009498558**
Option 3 ID : **441009498556**
Option 4 ID : **441009498557**
Status : **Answered**
Chosen Option : **3**

Q.34 Which of the following statements states that the heat engine will not produce net work in a complete cycle by exchanging heat with only one reservoir?

Ans
✓ 1. Kelvin-Planck statement
✗ 2. Clausius statement
✗ 3. Clausius inequality
✗ 4. Carnot's theorem

Question ID : **441009176769**
Option 1 ID : **441009698982**
Option 2 ID : **441009698981**
Option 3 ID : **441009698983**
Option 4 ID : **441009698984**
Status : **Answered**
Chosen Option : **1**

Q.35 Which drilling machine is characterised by multiple spindles operating simultaneously to perform drilling operations on a single workpiece?

Ans
✓ 1. Multi-Spindle Drilling Machine
✗ 2. Pillar Drilling Machine
✗ 3. Sensitive Drilling Machine
✗ 4. Upright Drilling Machine

Question ID : **441009229115**
Option 1 ID : **441009896099**
Option 2 ID : **441009896097**
Option 3 ID : **441009896098**
Option 4 ID : **441009896100**
Status : **Answered**
Chosen Option : **1**

Q.36 Which of the following increases the specific speed of a turbine?

Ans
✗ 1. Decreasing rotational speed
✗ 2. Decreasing power output
✓ 3. Increasing power output
✗ 4. Increasing net head

Question ID : **441009126350**
Option 1 ID : **441009502093**
Option 2 ID : **441009502092**
Option 3 ID : **441009502094**
Option 4 ID : **441009502095**
Status : **Answered**
Chosen Option : **3**

Q.37 The value of frictional force for V-belt is _____.

Ans
✔ 1. μR/sinα
✘ 2. μRsinα
✘ 3. μRcosα
✘ 4. μR/cosα

Question ID : **441009162878**
Option 1 ID : **441009645154**
Option 2 ID : **441009645155**
Option 3 ID : **441009645153**
Option 4 ID : **441009645152**
Status : **Answered**
Chosen Option : **4**

Q.38 Which of the following is commonly used to hold cylindrical workpieces in a milling machine?

Ans
✘ 1. T-slot table
✔ 2. V-block
✘ 3. Angle plate
✘ 4. Collet

Question ID : **441009229415**
Option 1 ID : **441009897261**
Option 2 ID : **441009897264**
Option 3 ID : **441009897263**
Option 4 ID : **441009897262**
Status : **Answered**
Chosen Option : **2**

Q.39 What is the primary role of flux in the soldering process?

Ans
✔ 1. To remove oxides and promote wetting
✘ 2. To melt the base metal
✘ 3. To act as a filler material
✘ 4. To insulate the joint

Question ID : **441009161175**
Option 1 ID : **441009638369**
Option 2 ID : **441009638370**
Option 3 ID : **441009638371**
Option 4 ID : **441009638372**
Status : **Answered**
Chosen Option : **1**

Q.40 Identify the INCORRECT statement from among the following.

Ans
✘ 1. The evaporation process is both isobaric and isothermal in character.
✘ 2. The superheated vapour behaves like a perfect gas.
✘ 3. The process of leakage of steam through the safety valve of a boiler corresponds through a throttling process.
✔ 4. The latent heat of vapourisation has a maximum value at the critical point.

Question ID : **441009168470**
Option 1 ID : **441009666839**
Option 2 ID : **441009666840**
Option 3 ID : **441009666842**
Option 4 ID : **441009666841**
Status : **Answered**
Chosen Option : **4**

Q.41 Which of the following statements is true regarding isometric projection?

Ans
✗ 1. Circles appear as circles.
✗ 2. All faces are drawn in the true shape.
✓ 3. Dimensions are scaled down using the isometric scale.
✗ 4. It uses the same scale as orthographic projection.

Question ID : **441009229090**
Option 1 ID : **441009895998**
Option 2 ID : **441009895997**
Option 3 ID : **441009895999**
Option 4 ID : **441009896000**
Status : **Answered**
Chosen Option : **3**

Q.42 How does sensible heat transfer from a substance to the refrigerant in the evaporator?

Ans
✗ 1. Through only convection process
✓ 2. Through both conduction and convection processes
✗ 3. Through only conduction process
✗ 4. Through only radiation process

Question ID : **44100996915**
Option 1 ID : **441009385697**
Option 2 ID : **441009385698**
Option 3 ID : **441009385695**
Option 4 ID : **441009385696**
Status : **Answered**
Chosen Option : **2**

Q.43 Which of the following processes proceeds in such a way that the system remains in equilibrium state at all times?

Ans
✗ 1. Isopiestic process
✓ 2. Quasi-static process
✗ 3. Polytropic process
✗ 4. Isochoric process

Question ID : **441009171198**
Option 1 ID : **441009677692**
Option 2 ID : **441009677691**
Option 3 ID : **441009677689**
Option 4 ID : **441009677690**
Status : **Answered**
Chosen Option : **2**

Q.44 How is the welding current controlled in Gas Metal Arc Welding (GMAW) or Metal Inert Gas (MIG) arc welding?

Ans
✗ 1. By adjusting the gas flow from the cylinder
✗ 2. By changing the voltage setting on the power supply
✓ 3. By varying the feed rate of the electrode wire
✗ 4. By modifying the electrode type used in welding

Question ID : **441009131846**
Option 1 ID : **441009523962**
Option 2 ID : **441009523963**
Option 3 ID : **441009523964**
Option 4 ID : **441009523965**
Status : **Answered**
Chosen Option : **2**

Q.45 What is the role of the feed rod in a lathe machine?

Ans
✗ 1. Rotate the spindle
✗ 2. Align the workpiece
✓ 3. Provide power to the carriage for feed motion
✗ 4. Transmit motion to the lead screw

Question ID : **441009161362**
Option 1 ID : **441009639102**
Option 2 ID : **441009639104**
Option 3 ID : **441009639103**
Option 4 ID : **441009639101**
Status : **Answered**
Chosen Option : **3**

Q.46 In the P-V diagram of a refrigeration cycle, the working fluid enters the compressor after the _____.

Ans
✓ 1. evaporator
✗ 2. condenser
✗ 3. throttling valve
✗ 4. expander

Question ID : **441009176790**
Option 1 ID : **441009699063**
Option 2 ID : **441009699062**
Option 3 ID : **441009699064**
Option 4 ID : **441009699061**
Status : **Answered**
Chosen Option : **1**

Q.47 A Watt governor is ineffective at:

Ans
✗ 1. 60 RPM
✗ 2. 50 RPM
✗ 3. 70 RPM
✓ 4. 80 RPM

Question ID : **44100999357**
Option 1 ID : **441009395395**
Option 2 ID : **441009395398**
Option 3 ID : **441009395396**
Option 4 ID : **441009395397**
Status : **Answered**
Chosen Option : **4**

Q.48 What is the key factor affecting the efficiency of a cone clutch?

Ans
✗ 1. Material of the cone
✓ 2. Angle of the cone
✗ 3. Type of lubrication
✗ 4. Speed of the shaft

Question ID : **441009100880**
Option 1 ID : **441009401531**
Option 2 ID : **441009401530**
Option 3 ID : **441009401533**
Option 4 ID : **441009401532**
Status : **Answered**
Chosen Option : **2**

Q.49 Which drive has constant velocity ratio?

Ans
✔ 1. Chain and gear
✘ 2. V-Belt and flat belt
✘ 3. V-Belt and rope
✘ 4. Flat belt and rope

Question ID : **441009163145**
Option 1 ID : **441009646210**
Option 2 ID : **441009646213**
Option 3 ID : **441009646211**
Option 4 ID : **441009646212**
Status : **Answered**
Chosen Option : **1**

Q.50 In the stress-strain diagram for structural steels, the slope of the linear portion represents:

Ans
✔ 1. the modulus of elasticity
✘ 2. the yield strength
✘ 3. plastic deformation
✘ 4. the ultimate tensile strength

Question ID : **441009130823**
Option 1 ID : **441009519791**
Option 2 ID : **441009519789**
Option 3 ID : **441009519792**
Option 4 ID : **441009519790**
Status : **Answered**
Chosen Option : **1**

Q.51 What is the coefficient of fluctuation of speed in flywheel defined as?

Ans
✔ 1. $\frac{\text{Maximum fluctuation of speed}}{\text{Mean speed}}$
✘ 2. $\frac{\text{Maximum Speed}}{\text{Maximum fluctuation of speed}}$
✘ 3. $\frac{\text{Maximum fluctuation of speed}}{\text{Maximum speed}}$
✘ 4. $\frac{\text{Maximum fluctuation of speed}}{\text{Work Done}}$

Question ID : **441009150972**
Option 1 ID : **441009599119**
Option 2 ID : **441009599122**
Option 3 ID : **441009599121**
Option 4 ID : **441009599120**
Status : **Answered**
Chosen Option : **1**

Q.52 Which of the following steady flow devices increases the pressure of a fluid by slowing it down?

Ans
✗ 1. Compressor
✗ 2. Turbine
✓ 3. Diffuser
✗ 4. Nozzle

Question ID : **441009171093**
Option 1 ID : **441009677278**
Option 2 ID : **441009677280**
Option 3 ID : **441009677279**
Option 4 ID : **441009677277**
Status : **Answered**
Chosen Option : **3**

Q.53 What is the key difference between creep and elastic deformation?

Ans
✗ 1. Elastic deformation depends on time, whereas creep is independent of time.
✗ 2. Creep occurs only at low temperatures, whereas elastic deformation occurs only at high temperatures.
✓ 3. Elastic deformation is reversible upon load removal, whereas creep leads to permanent deformation over time under constant stress.
✗ 4. Creep occurs instantly when a load is applied, whereas elastic deformation occurs over a long period under constant stress.

Question ID : **441009130793**
Option 1 ID : **441009519692**
Option 2 ID : **441009519691**
Option 3 ID : **441009519690**
Option 4 ID : **441009519689**
Status : **Answered**
Chosen Option : **3**

Q.54 If the speed of a turbine is doubled, how will the unit speed (Nu) change?

Ans
✓ 1. Increase by 2 times
✗ 2. Increase by 21/2 times
✗ 3. Decrease by 2 times
✗ 4. Remain constant

Question ID : **441009126566**
Option 1 ID : **441009502954**
Option 2 ID : **441009502952**
Option 3 ID : **441009502955**
Option 4 ID : **441009502953**
Status : **Answered**
Chosen Option : **1**

Q.55 Determine the number of teeth in gear D in a reverted gear train in which gear A and B meshes with compound gear B-C; gear C is meshing with gear D. Modulus of gear A and C are 6 mm and 5 mm, respectively. The number of teeth in gear A, B, C are 24, 36 and 40, respectively.

Ans
1. 30
2. 32
3. 34
4. 38

Question ID : **441009160846**
Option 1 ID : **441009637110**
Option 2 ID : **441009637108**
Option 3 ID : **441009637109**
Option 4 ID : **441009637111**
Status : **Answered**
Chosen Option : **2**

Q.56 The amount of refrigeration effect produced depends on the:

Ans
1. size of the compressor
2. amount of heat absorbed at the evaporator
3. temperature difference across the system
4. efficiency of the condenser

Question ID : **44100995924**
Option 1 ID : **441009381659**
Option 2 ID : **441009381658**
Option 3 ID : **441009381661**
Option 4 ID : **441009381660**
Status : **Answered**
Chosen Option : **2**

Q.57 A force of 120 kN makes angles of 60^0, 80^0 and 120^0 with x, y and z axes, respectively. Determine its z component of force.

Ans
1. −21 kN
2. 21 kN
3. −60 kN
4. 120 kN

Question ID : **441009168072**
Option 1 ID : **441009665285**
Option 2 ID : **441009665286**
Option 3 ID : **441009665287**
Option 4 ID : **441009665288**
Status : **Answered**
Chosen Option : **3**

Q.58 A material has a bulk modulus of 80 GPa and a Poisson's ratio of 0.25. Its Young's modulus is:

Ans
✗ 1. 180 GPa
✓ 2. 200 GPa
✗ 3. 120 GPa
✗ 4. 100 GPa

Question ID : **441009130852**
Option 1 ID : **441009519903**
Option 2 ID : **441009549317**
Option 3 ID : **441009519902**
Option 4 ID : **441009519901**
Status : **Answered**
Chosen Option : **2**

Q.59 Which of the following is NOT typically included in the specifications of a drilling machine?

Ans
✗ 1. Maximum drilling capacity
✓ 2. Type of coolant used
✗ 3. Spindle speed range
✗ 4. Table size

Question ID : **441009229145**
Option 1 ID : **441009896219**
Option 2 ID : **441009896218**
Option 3 ID : **441009896217**
Option 4 ID : **441009896220**
Status : **Answered**
Chosen Option : **2**

Q.60 Which of the following assumptions is NOT valid for Bernoulli's theorem?

Ans
✗ 1. Frictionless flow
✓ 2. Viscous flow
✗ 3. Incompressible flow
✗ 4. Steady flow

Question ID : **441009125305**
Option 1 ID : **441009498083**
Option 2 ID : **441009498082**
Option 3 ID : **441009498084**
Option 4 ID : **441009498085**
Status : **Answered**
Chosen Option : **2**

Q.61 The specific speed (Ns) of a hydraulic turbine is defined as the speed of a geometrically similar turbine that _____.

Ans
✗ 1. delivers unit power at maximum efficiency
✓ 2. develops unit power at unit head
✗ 3. operates at maximum efficiency
✗ 4. delivers unit discharge at unit head

Question ID : **441009126165**
Option 1 ID : **441009501365**
Option 2 ID : **441009501366**
Option 3 ID : **441009501364**
Option 4 ID : **441009501367**
Status : **Answered**
Chosen Option : **2**

Q.62 Force is a ____ quantity.

Ans
✗ 1. scalar
✗ 2. tensor
✓ 3. vector
✗ 4. dimensionless

Question ID : **441009100945**
Option 1 ID : **441009401790**
Option 2 ID : **441009401792**
Option 3 ID : **441009401791**
Option 4 ID : **441009401793**
Status : **Answered**
Chosen Option : **3**

Q.63 Which of the following refrigerants has the highest latent heat of vaporisation?

Ans
✗ 1. R-12 (Dichlorodiflurомethane)
✗ 2. Carbon dioxide (R-744)
✓ 3. Ammonia (R-717)
✗ 4. R-123 (Dichloro-trifluoro ethane)

Question ID : **44100997715**
Option 1 ID : **441009388861**
Option 2 ID : **441009388860**
Option 3 ID : **441009388859**
Option 4 ID : **441009388862**
Status : **Answered**
Chosen Option : **3**

Q.64 What is typically mounted on the lathe bed?

Ans
✗ 1. Pulley system
✗ 2. Chuck and gears only
✓ 3. Tailstock, carriage and headstock
✗ 4. Cutting fluids

Question ID : **441009161375**
Option 1 ID : **441009639155**
Option 2 ID : **441009639154**
Option 3 ID : **441009639153**
Option 4 ID : **441009639156**
Status : **Answered**
Chosen Option : **3**

Q.65 How does the use of an economiser impact the overall fuel consumption of a boiler system?

Ans
✗ 1. It increases fuel consumption significantly.
✗ 2. It increases the heat losses from the boiler.
✓ 3. It decreases fuel consumption by recovering waste heat.
✗ 4. It has no effect on fuel consumption.

Question ID : **441009104199**
Option 1 ID : **441009414991**
Option 2 ID : **441009414994**
Option 3 ID : **441009414992**
Option 4 ID : **441009414993**
Status : **Answered**
Chosen Option : **3**

Q.66 What is the relation between maximum fluctuation of energy and coefficient of fluctuation of speed for a flywheel?

Ans
✗ 1. Maximum fluctuation of energy = IωCs
✗ 2. Cs = Iω2 X Maximum fluctuation of energy
✓ 3. Maximum fluctuation of energy = Iω2Cs
✗ 4. Cs = Iω X Maximum fluctuation of energy

Question ID : **441009151025**
Option 1 ID : **441009599332**
Option 2 ID : **441009599329**
Option 3 ID : **441009599330**
Option 4 ID : **441009599331**
Status : **Answered**
Chosen Option : **3**

Q.67 What is the primary purpose of a steam trap?

Ans
✗ 1. To store steam
✗ 2. To regulate steam pressure
✗ 3. To increase steam temperature
✓ 4. To remove condensate and non-condensable gases from the steam system

Question ID : **441009109529**
Option 1 ID : **441009435827**
Option 2 ID : **441009435825**
Option 3 ID : **441009435828**
Option 4 ID : **441009435826**
Status : **Answered**
Chosen Option : **4**

Q.68 Resistance seam welding creates a continuous joint using:

Ans
✗ 1. induction coil
✗ 2. pointed electrodes
✓ 3. rotating wheel electrodes
✗ 4. laser beam

Question ID : **441009161350**
Option 1 ID : **441009639056**
Option 2 ID : **441009639053**
Option 3 ID : **441009639054**
Option 4 ID : **441009639055**
Status : **Answered**
Chosen Option : **3**

Q.69 What is the primary purpose of converting a pictorial view into orthographic views in technical drawing?

Ans
✗ 1. To add colours and texture to the drawing
✗ 2. To simplify the drawing for artistic interpretation
✓ 3. To accurately represent all dimensions and details from different views
✗ 4. To create a 3D representation for visual appeal

Question ID : **441009224007**
Option 1 ID : **441009877314**
Option 2 ID : **441009877317**
Option 3 ID : **441009877316**
Option 4 ID : **441009877315**
Status : **Answered**
Chosen Option : **3**

Q.70 Which of the following is a key benefit of multi-stage compression?

Ans
✔ 1. Increases the overall efficiency of the system
✘ 2. Increases the complexity of the compressor
✘ 3. Eliminates the need for cooling
✘ 4. Reduces the need for lubrication

Question ID : **441009114199**
Option 1 ID : **441009454251**
Option 2 ID : **441009454252**
Option 3 ID : **441009454253**
Option 4 ID : **441009454250**
Status : **Answered**
Chosen Option : **1**

Q.71 When analysing a spherical pressure vessel, the convenient free body used for analysis is:

Ans
✘ 1. a small segment of the sphere wall
✘ 2. a quarter of the sphere
✘ 3. the entire sphere
✔ 4. one-half of the sphere

Question ID : **441009139539**
Option 1 ID : **441009554422**
Option 2 ID : **441009554419**
Option 3 ID : **441009554421**
Option 4 ID : **441009554420**
Status : **Answered**
Chosen Option : **2**

Q.72 In a separating and throttling calorimeter, the steam will be at minimum pressure:

Ans
✘ 1. before throttling unit
✘ 2. before separating unit
✘ 3. after separating unit
✔ 4. after throttling unit

Question ID : **441009149335**
Option 1 ID : **441009593101**
Option 2 ID : **441009593103**
Option 3 ID : **441009593100**
Option 4 ID : **441009593102**
Status : **Answered**
Chosen Option : **4**

Q.73 In which of the following mechanisms is a cam and follower used to convert rotary motion into reciprocating motion?

Ans
✘ 1. Belt conveyor
✘ 2. Chain drive
✘ 3. Gearbox
✔ 4. IC engine valve mechanism

Question ID : **441009100896**
Option 1 ID : **441009401595**
Option 2 ID : **441009401594**
Option 3 ID : **441009401597**
Option 4 ID : **441009401596**
Status : **Answered**
Chosen Option : **4**

Q.74 What is a common issue caused by a steam trap failing to function properly?

Ans
✗ 1. Overheating of the system
✗ 2. Leakage of air into the system
✗ 3. Increased steam pressure
✓ 4. Water hammer and reduced system efficiency

Question ID : **441009109518**
Option 1 ID : **441009435781**
Option 2 ID : **441009435784**
Option 3 ID : **441009435783**
Option 4 ID : **441009435782**
Status : **Answered**
Chosen Option : **4**

Q.75 When a body slides or tends to slide on a surface on which it is resting, a resisting force opposing the motion is produced at the contact surface. This resisting force is called _____.

Ans
✗ 1. friction
✗ 2. angle of friction
✗ 3. angle of response
✓ 4. limiting friction

Question ID : **441009169232**
Option 1 ID : **441009669907**
Option 2 ID : **441009669909**
Option 3 ID : **441009669910**
Option 4 ID : **441009669908**
Status : **Answered**
Chosen Option : **4**

Q.76 Which of the following steady flow devices is a kind of flow-restricting device that causes a significant pressure drop in the fluid?

Ans
✓ 1. Throttling valve
✗ 2. Turbine
✗ 3. Compressor
✗ 4. Nozzle

Question ID : **441009171103**
Option 1 ID : **441009677316**
Option 2 ID : **441009677314**
Option 3 ID : **441009677315**
Option 4 ID : **441009677313**
Status : **Answered**
Chosen Option : **4**

Q.77 What is the function of a tool post?

Ans
✗ 1. Rotate the spindle
✓ 2. Hold and adjust the cutting tool
✗ 3. Support the chuck
✗ 4. Support the tailstock

Question ID : **441009161394**
Option 1 ID : **441009639229**
Option 2 ID : **441009639231**
Option 3 ID : **441009639230**
Option 4 ID : **441009639232**
Status : **Answered**
Chosen Option : **2**

Q.78 Which of the following relations is correct between train value and velocity ratio?

Ans
✔ 1. Train value X Velocity ratio = 1
✘ 2. Train value + Velocity ratio = 1
✘ 3. Train value / Velocity ratio = 1
✘ 4. Train value − Velocity ratio = 1

Question ID : **441009163112**
Option 1 ID : **441009646083**
Option 2 ID : **441009646085**
Option 3 ID : **441009646084**
Option 4 ID : **441009646086**
Status : **Answered**
Chosen Option : **1**

Q.79 Which of the following statements about a tailrace in a hydroelectric power plant is true?

Ans
✘ 1. It removes sediments from the water before entering the turbine.
✘ 2. It increases the head of water entering the turbine.
✔ 3. It is located after the turbine and returns water to the river.
✘ 4. It carries water from the reservoir to the penstock.

Question ID : **441009126643**
Option 1 ID : **441009503255**
Option 2 ID : **441009503253**
Option 3 ID : **441009503252**
Option 4 ID : **441009503254**
Status : **Answered**
Chosen Option : **3**

Q.80 How does by-pass governing affect the power output of a steam turbine?

Ans
✘ 1. It limits or reduces the power output during low load conditions.
✘ 2. It has no effect on power output.
✔ 3. It increases power output.
✘ 4. It maintains constant power output regardless of load.

Question ID : **441009101850**
Option 1 ID : **441009405417**
Option 2 ID : **441009405418**
Option 3 ID : **441009405415**
Option 4 ID : **441009405416**
Status : **Answered**
Chosen Option : **1**

Q.81 If the diameter (d) and length (L) of a thin cylinder are doubled, then how does the force due to fluid pressure change?

Ans
✘ 1. It decreases by two times.
✔ 2. It increases by four times.
✘ 3. It remains the same.
✘ 4. It increases by two times.

Question ID : **441009138821**
Option 1 ID : **441009551615**
Option 2 ID : **441009551614**
Option 3 ID : **441009551612**
Option 4 ID : **441009551613**
Status : **Not Answered**
Chosen Option : **--**

Q.82 The total energy of a simple harmonic oscillator is proportional to _____.

Ans
✗ 1. the displacement
✗ 2. the mass of the oscillator
✓ 3. the square of the amplitude
✗ 4. the velocity

Question ID : **441009100915**
Option 1 ID : **441009401671**
Option 2 ID : **441009401673**
Option 3 ID : **441009401670**
Option 4 ID : **441009401672**
Status : **Not Answered**
Chosen Option : **--**

Q.83 Which of the following is INCORRECT with respect to rope drive?

Ans
✗ 1. Resultant driving tension is more than belt drive.
✗ 2. Friction grip is more than belt drive.
✗ 3. Preferred for long centre distance.
✓ 4. Tension in it is not uniformly distributed.

Question ID : **441009162458**
Option 1 ID : **441009643484**
Option 2 ID : **441009643485**
Option 3 ID : **441009643487**
Option 4 ID : **441009643486**
Status : **Answered**
Chosen Option : **4**

Q.84 A reaction turbine has a hydraulic efficiency of 90% and a mechanical efficiency of 92%. If the generator efficiency is 95%, what is the overall efficiency of the turbine-generator system?

Ans
✗ 1. 80.8%
✓ 2. 78.66%
✗ 3. 74.5%
✗ 4. 85.5%

Question ID : **441009126156**
Option 1 ID : **441009501329**
Option 2 ID : **441009501330**
Option 3 ID : **441009501331**
Option 4 ID : **441009501328**
Status : **Answered**
Chosen Option : **2**

Q.85 For a hollow shaft, the polar moment of inertia is used to determine:

Ans
✗ 1. compressive strength
✗ 2. axial stress
✗ 3. bending moment
✓ 4. torsional rigidity

Question ID : **441009135068**
Option 1 ID : **441009536903**
Option 2 ID : **441009536900**
Option 3 ID : **441009536901**
Option 4 ID : **441009536902**
Status : **Answered**
Chosen Option : **4**

Q.86 In the T-S diagram of Otto cycle, the entropy remains constant and the temperature increases in _____.

Ans
✔ 1. isentropic compression
✘ 2. isentropic expansion
✘ 3. constant volume heat addition
✘ 4. constant volume heat rejection

Question ID : **441009187633**
Option 1 ID : **441009740938**
Option 2 ID : **441009740940**
Option 3 ID : **441009740939**
Option 4 ID : **441009740941**
Status : **Answered**
Chosen Option : **1**

Q.87 In a pressure-compounded turbine, each stage typically includes _____.

Ans
✘ 1. one condenser and one nozzle
✔ 2. one nozzle and one moving blade
✘ 3. two moving blades
✘ 4. one nozzle, one fixed blade and one moving blade

Question ID : **441009157531**
Option 1 ID : **441009625290**
Option 2 ID : **441009625287**
Option 3 ID : **441009625289**
Option 4 ID : **441009625288**
Status : **Answered**
Chosen Option : **2**

Q.88 If the coefficient of friction is 0.577, then find out the angle of friction.

Ans
✘ 1. 900
✘ 2. 600
✔ 3. 300
✘ 4. 450

Question ID : **441009168876**
Option 1 ID : **441009668474**
Option 2 ID : **441009668473**
Option 3 ID : **441009668471**
Option 4 ID : **441009668472**
Status : **Answered**
Chosen Option : **3**

Q.89 The principle that the pressure intensity in a fluid at a given depth is the same in all directions is known as:

Ans
✘ 1. Surface Tension
✔ 2. Pascal's Law
✘ 3. Viscosity
✘ 4. Hook's Law

Question ID : **441009103374**
Option 1 ID : **441009411631**
Option 2 ID : **441009411633**
Option 3 ID : **441009411634**
Option 4 ID : **441009411632**
Status : **Answered**
Chosen Option : **2**

Q.90 Calculate the maximum velocity of belt in which centrifugal tension is

Ans
✗ 1. $\sqrt{100}$
✗ 2. $\sqrt{1000}$
✓ 3. $\sqrt{10}$
✗ 4. $\sqrt{1}$

Question ID : **441009162988**
Option 1 ID : **441009645594**
Option 2 ID : **441009645595**
Option 3 ID : **441009645593**
Option 4 ID : **441009645592**
Status : **Answered**
Chosen Option : **3**

Q.91 **Which turbine type is more efficient in large-scale power generation?**

Ans
✓ 1. Reaction turbine only
✗ 2. Impulse turbine only
✗ 3. De-Lavel turbine
✗ 4. Both impulse and reaction turbines are equally efficient

Question ID : **441009102559**
Option 1 ID : **441009408259**
Option 2 ID : **441009408258**
Option 3 ID : **441009408261**
Option 4 ID : **441009408260**
Status : **Answered**
Chosen Option : **1**

Q.92 **During compression of 10 kg of gas from 1.5 m^3 to 0.3 m^3 at constant pressure of 15 bars, the temperature rise was observed to be from 20°C to 150°C. The increase in internal energy was observed to be 3250 kJ. The work done and heat interaction during the process was observed as _____ and _____, respectively.**

Ans
✗ 1. −1450 kJ; −1800 kJ
✗ 2. 1800 kJ; 1450 kJ
✓ 3. −1800 kJ; 1450 kJ
✗ 4. −1450 kJ; 1800 kJ

Question ID : **441009157893**
Option 1 ID : **441009626552**
Option 2 ID : **441009626553**
Option 3 ID : **441009626551**
Option 4 ID : **441009626550**
Status : **Answered**
Chosen Option : **3**

Q.93 Cavitation in a centrifugal pump occurs when the suction pressure falls below the _____ of the liquid.

Ans
✗ 1. discharge pressure
✓ 2. vapour pressure
✗ 3. suction head
✗ 4. atmospheric pressure

Question ID : **441009131221**
Option 1 ID : **441009521488**
Option 2 ID : **441009521487**
Option 3 ID : **441009521489**
Option 4 ID : **441009521486**
Status : **Answered**
Chosen Option : **2**

Q.94 During steam formation, external work of evaporation is basically _____.

Ans
✗ 1. heat removed from saturated or superheated steam to make it a wet steam
✓ 2. work done by steam to increase its volume
✗ 3. work done on steam by external force to reduce its volume
✗ 4. heat supplied to steam to increase its temperature

Question ID : **441009161419**
Option 1 ID : **441009639332**
Option 2 ID : **441009639329**
Option 3 ID : **441009639330**
Option 4 ID : **441009639331**
Status : **Answered**
Chosen Option : **4**

Q.95 The air temperature during compression in a single-stage compressor _____.

Ans
✓ 1. only increases
✗ 2. fluctuates randomly
✗ 3. only decreases
✗ 4. remains constant

Question ID : **441009119507**
Option 1 ID : **441009475149**
Option 2 ID : **441009475150**
Option 3 ID : **441009475147**
Option 4 ID : **441009475148**
Status : **Answered**
Chosen Option : **1**

Q.96 Find the kinetic energy of a flywheel at 250rpm if it absorbs 24kJ of energy on increasing its speed from 210rpm to 214rpm.

Ans
✗ 1. 784.3J
✗ 2. 884.3J
✗ 3. 784.3kJ
✓ 4. 884.3kJ

Question ID : **441009151132**
Option 1 ID : **441009599742**
Option 2 ID : **441009599741**
Option 3 ID : **441009599743**
Option 4 ID : **441009599744**
Status : **Not Answered**
Chosen Option : **--**

Q.97 Mollier diagram is a plot between _____.

Ans

✗ 1. pressure and enthalpy

✗ 2. pressure and entropy

✗ 3. temperature and entropy

✓ 4. enthalpy and entropy

Question ID : **441009151775**
Option 1 ID : **441009602266**
Option 2 ID : **441009602264**
Option 3 ID : **441009602263**
Option 4 ID : **441009602265**
Status : **Answered**
Chosen Option : **4**

Q.98 Identify the INCORRECT statement with respect to superheated steam.

Ans

✗ 1. The moisture content of steam leaving the steam turbine can be kept within safe limits.

✓ 2. A greater heat content of superheated steam leads to more steam consumption for a given output.

✗ 3. Superheating is done generally by utilising the heat of waste furnace gases, which will otherwise pass unutilised to the atmosphere.

✗ 4. It allows higher work capacity without increase in pressure.

Question ID : **441009133349**
Option 1 ID : **441009530195**
Option 2 ID : **441009530196**
Option 3 ID : **441009530197**
Option 4 ID : **441009530194**
Status : **Answered**
Chosen Option : **2**

Q.99 In which of the following systems, the mass flow rate within the control volume, which is accumulated, changes?

Ans

✓ 1. Evacuating gas cylinders

✗ 2. Diffuser

✗ 3. Compressor

✗ 4. Throttling valve

Question ID : **441009171279**
Option 1 ID : **441009678007**
Option 2 ID : **441009678008**
Option 3 ID : **441009678006**
Option 4 ID : **441009678005**
Status : **Answered**
Chosen Option : **1**

Q.10 The movement of the sleeve in a dead-weight Porter governor _____.
0

Ans
✔ 1. is downward when the speed decreases
✘ 2. is upward when the speed decreases
✘ 3. is downward when the speed increases
✘ 4. moves randomly

Question ID : **44100999419**
Option 1 ID : **441009395634**
Option 2 ID : **441009395633**
Option 3 ID : **441009395635**
Option 4 ID : **441009395636**
Status : **Answered**
Chosen Option : **1**

Q.10 At critical pressure, _____.
1

Ans
✔ 1. latent heat of vapourisation is zero
✘ 2. saturated vapour becomes a gas
✘ 3. entropy is zero
✘ 4. sublimation occurs from solid to vapour phase

Question ID : **441009163633**
Option 1 ID : **441009648176**
Option 2 ID : **441009648177**
Option 3 ID : **441009648175**
Option 4 ID : **441009648178**
Status : **Answered**
Chosen Option : **1**

Q.10 In orthographic projection, which of the following is true regarding auxiliary views?
2

Ans
✔ 1. They show parts of an object not visible in principal views.
✘ 2. They are only used in third angle projection.
✘ 3. They are used to simplify the drawing.
✘ 4. They replace the top or front views.

Question ID : **441009226764**
Option 1 ID : **441009887889**
Option 2 ID : **441009887891**
Option 3 ID : **441009887888**
Option 4 ID : **441009887890**
Status : **Answered**
Chosen Option : **1**

Q.10 Which chain is used in quietness operation?
3

Ans
✗ 1. Hoisting chain
✗ 2. Roller chain
✗ 3. Block chain
✓ 4. Inverted tooth chain

Question ID : **441009163046**
Option 1 ID : **441009645823**
Option 2 ID : **441009645821**
Option 3 ID : **441009645820**
Option 4 ID : **441009645822**
Status : **Answered**
Chosen Option : **4**

Q.10 The correct relation between tension T_1, T_2, angle of lap θ and coeffic
4

Ans
✓ 1. $\frac{T_1}{T_2} = e^{\mu\theta}$
✗ 2. $\frac{T_1}{T_2} = e^{\frac{\theta}{\mu}}$
✗ 3. $\frac{T_1}{T_2} = \mu\theta$
✗ 4. $\frac{T_1}{T_2} = e^{\frac{\mu}{\theta}}$

Question ID : **441009162600**
Option 1 ID : **441009644052**
Option 2 ID : **441009644055**
Option 3 ID : **441009644053**
Option 4 ID : **441009644054**
Status : **Answered**
Chosen Option : **1**

Q.10 The Naval Research Laboratory (NRL) method simplifies Caine's method by defining a
5 shape factor to replace the freezing ratio. How is this shape factor calculated?

Ans
✓ 1. (Length + Width) / Thickness
✗ 2. (Length × Width) / Thickness
✗ 3. (Length ÷ Width) / Thickness
✗ 4. (Length − Width) / Thickness

Question ID : **441009131829**
Option 1 ID : **441009523899**
Option 2 ID : **441009523898**
Option 3 ID : **441009523901**
Option 4 ID : **441009523900**
Status : **Not Answered**
Chosen Option : **--**

Q.10 The centre of pressure of a submerged plane surface always lies _____.
6

Ans
✗ 1. at the free surface
✓ 2. below the centroid of the surface
✗ 3. above the centroid of the surface
✗ 4. at the centroid of the surface

Question ID : **441009103326**
Option 1 ID : **441009411415**
Option 2 ID : **441009411417**
Option 3 ID : **441009411416**
Option 4 ID : **441009411418**
Status : **Answered**
Chosen Option : **2**

Q.10 Which of the following correctly describes the flow characteristics in a Pelton wheel
7 turbine?

Ans
✗ 1. Water flows radially inward through the runner to generate power.
✓ 2. Water flows tangentially and impacts the buckets to rotate the wheel.
✗ 3. Water flows in a mixed direction to ensure efficient energy transfer.
✗ 4. Water enters the runner axially and gradually loses pressure.

Question ID : **441009132174**
Option 1 ID : **441009525322**
Option 2 ID : **441009525323**
Option 3 ID : **441009525325**
Option 4 ID : **441009525324**
Status : **Answered**
Chosen Option : **2**

Q.10 The abscissa of a Mollier diagram represents _____.
8

Ans
✗ 1. temperature of the system
✗ 2. dryness fraction of the system
✗ 3. enthalpy of the system
✓ 4. entropy of the system

Question ID : **441009151712**
Option 1 ID : **441009602027**
Option 2 ID : **441009602030**
Option 3 ID : **441009602028**
Option 4 ID : **441009602029**
Status : **Answered**
Chosen Option : **4**

Q.10 9 In compressible flow through an orifice meter, the mass flow rate equation includes a correction factor to account for which of the following?

Ans
✗ 1. Pipe roughness
✓ 2. Compressibility of fluid
✗ 3. Change in kinetic energy
✗ 4. Change in potential energy

Question ID : **441009125672**
Option 1 ID : **441009499509**
Option 2 ID : **441009499510**
Option 3 ID : **441009499511**
Option 4 ID : **441009499508**
Status : **Answered**
Chosen Option : **2**

Q.11 0 According to the Principle of Transmissibility, shifting a force along its line of action does NOT affect:

Ans
✓ 1. the external reaction forces
✗ 2. the internal forces in the body
✗ 3. the force itself
✗ 4. the motion of the body

Question ID : **441009100987**
Option 1 ID : **441009401959**
Option 2 ID : **441009401958**
Option 3 ID : **441009401961**
Option 4 ID : **441009401960**
Status : **Answered**
Chosen Option : **3**

Q.11 1 Which of the following is NOT required when converting orthographic views into isometric projection?

Ans
✗ 1. Front, top, and side views
✗ 2. Type of object
✗ 3. Dimensions
✓ 4. Line thickness

Question ID : **441009226811**
Option 1 ID : **441009888072**
Option 2 ID : **441009888075**
Option 3 ID : **441009888073**
Option 4 ID : **441009888074**
Status : **Answered**
Chosen Option : **4**

Q.11 2 When comparing the torsional strength of a solid and a hollow circular shaft of the same material and outer diameter, which of the following statement is true?

Ans
1. Both shafts have equal torsional strength, regardless of weight.
2. The solid shaft always has greater torsional strength.
3. The hollow shaft can have equivalent torsional strength with less weight.
4. The hollow shaft always has greater torsional strength.

Question ID : **441009131557**
Option 1 ID : **441009522817**
Option 2 ID : **441009522814**
Option 3 ID : **441009522816**
Option 4 ID : **441009522815**
Status : **Answered**
Chosen Option : **2**

Q.11 3 If a hydraulic turbine has a hydraulic efficiency of 85% and a mechanical efficiency of 90%, what is the overall efficiency?

Ans
1. 81.2%
2. 76.5%
3. 75.6%
4. 78.4%

Question ID : **441009126129**
Option 1 ID : **441009501228**
Option 2 ID : **441009501230**
Option 3 ID : **441009501229**
Option 4 ID : **441009501231**
Status : **Answered**
Chosen Option : **2**

Q.11 4 In the Babcock and Wilcox Boiler, where is the water present?

Ans
1. Inside the combustion chamber
2. Inside the furnace tubes
3. Inside the water tubes
4. In the steam drum

Question ID : **441009106493**
Option 1 ID : **441009424002**
Option 2 ID : **441009423999**
Option 3 ID : **441009424001**
Option 4 ID : **441009424000**
Status : **Answered**
Chosen Option : **3**

Q.115 In which type of follower does the motion depend on the axis movement of the follower rod?

Ans
1. Roller follower
2. Knife-edge follower
3. Oscillating follower
4. Radial follower

Question ID : **441009100907**
Option 1 ID : **441009401641**
Option 2 ID : **441009401640**
Option 3 ID : **441009401639**
Option 4 ID : **441009401638**
Status : **Answered**
Chosen Option : **3**

Q.116 A domestic food freezer maintains a temperature of −15°C. If heat leaks into the freezer at the continuous rate of 1.75 kJ/s and heat is discharged from the condenser at the rate of 2.06 kJ/s, then what is the least power necessary to pump this heat out continuously?

Ans
1. 3.81 kW
2. 38.1 W
3. 31 W
4. 0.31 kW

Question ID : **441009176749**
Option 1 ID : **441009698901**
Option 2 ID : **441009698902**
Option 3 ID : **441009698904**
Option 4 ID : **441009698903**
Status : **Answered**
Chosen Option : **4**

Q.117 The point locus in a multi-stage turbine is influenced by:

Ans
1. only the blade angle
2. both blade angle and flow conditions
3. only the turbine speed
4. only the flow rate

Question ID : **441009124802**
Option 1 ID : **441009496087**
Option 2 ID : **441009496089**
Option 3 ID : **441009496090**
Option 4 ID : **441009496088**
Status : **Not Answered**
Chosen Option : **--**

Q.118 Which of the following has the least impact on the accuracy of velocity measurement using a Pitot tube?

Ans
✗ 1. Fluid density variation
✗ 2. Size of Pitot tube orifice
✗ 3. Misalignment with the flow direction
✓ 4. Surface roughness of the tube exterior

Question ID : **441009125710**
Option 1 ID : **441009499633**
Option 2 ID : **441009499634**
Option 3 ID : **441009499635**
Option 4 ID : **441009499632**
Status : **Answered**
Chosen Option : **4**

Q.119 How does the water jet interact with the runner before exiting in a cross-flow turbine?

Ans
✗ 1. The jet flows along the runner's length, exits axially without re-entering, and transfers half its energy.
✗ 2. The jet strikes the runner buckets once, transfers all its kinetic energy, and exits radially.
✓ 3. The jet enters from the top, reacts with the buckets twice, and exits after losing most of its energy.
✗ 4. The jet is deflected by guide vanes, enters from the side, and exits after a single pass through the runner.

Question ID : **441009132193**
Option 1 ID : **441009525447**
Option 2 ID : **441009525445**
Option 3 ID : **441009525446**
Option 4 ID : **441009525448**
Status : **Answered**
Chosen Option : **3**

Q.120 The process of leakage of steam through a narrow aperture or slightly open valve constitutes a _____.

Ans
✓ 1. constant enthalpy process
✗ 2. constant pressure process
✗ 3. constant volume process
✗ 4. constant temperature process

Question ID : **441009151683**
Option 1 ID : **441009601917**
Option 2 ID : **441009601915**
Option 3 ID : **441009601916**
Option 4 ID : **441009601918**
Status : **Answered**
Chosen Option : **1**

Q.12 Which of the following is the condition to be met for the wall thickness (t) of a sphere to be considered 'thin-walled'?
1

Ans
✔ 1. t < 1/10 of the radius
✘ 2. t < 1/2 of the radius
✘ 3. t > 1/2 of the radius
✘ 4. t > 1/10 of the radius

Question ID : **441009139540**
Option 1 ID : **441009554426**
Option 2 ID : **441009554423**
Option 3 ID : **441009554424**
Option 4 ID : **441009554425**
Status : **Answered**
Chosen Option : **1**

Q.12 What is the typical threading mechanism linked to the lead screw?
2

Ans
✘ 1. Rack and pinion
✘ 2. Cross-slide
✔ 3. Half-nut
✘ 4. Compound rest

Question ID : **441009161383**
Option 1 ID : **441009639185**
Option 2 ID : **441009639186**
Option 3 ID : **441009639187**
Option 4 ID : **441009639188**
Status : **Answered**
Chosen Option : **3**

Q.12 Which of the following statements correctly describes a characteristic of a cross-flow turbine?
3

Ans
✔ 1. It has a cylindrical runner mounted on a horizontal shaft.
✘ 2. It operates as a reaction turbine with pressure variation along the blades.
✘ 3. Its runner consists of straight blades instead of curved ones.
✘ 4. It works under fully submerged conditions like a Kaplan turbine.

Question ID : **441009132188**
Option 1 ID : **441009525410**
Option 2 ID : **441009525411**
Option 3 ID : **441009525412**
Option 4 ID : **441009525413**
Status : **Not Answered**
Chosen Option : **--**

Q.12 Which of the following correctly represents the components included in the total manometric head (Hm) of a centrifugal pump?
4

Ans
✗ 1. Suction head, delivery head and velocity head in the suction pipe
✗ 2. Pressure head, velocity head in the suction pipe and vertical height of the pump
✓ 3. Suction head, delivery head, frictional losses and velocity head in the delivery pipe
✗ 4. Pressure head, velocity head in the delivery pipe and losses due to impeller rotation

Question ID : **441009131265**
Option 1 ID : **441009521658**
Option 2 ID : **441009521660**
Option 3 ID : **441009521659**
Option 4 ID : **441009521661**
Status : **Answered**
Chosen Option : **3**

Q.12 What is the true scale factor used in isometric projection (not isometric drawing)?
5

Ans
✓ 1. 0.816
✗ 2. 2
✗ 3. 1
✗ 4. 0.916

Question ID : **441009227088**
Option 1 ID : **441009889141**
Option 2 ID : **441009889139**
Option 3 ID : **441009889138**
Option 4 ID : **441009889140**
Status : **Not Answered**
Chosen Option : **--**

Q.12 A centrifugal clutch operates because of _____.
6

Ans
✗ 1. hydraulic pressure
✗ 2. force due to belt tension
✗ 3. centripetal force
✓ 4. centrifugal force

Question ID : **441009100865**
Option 1 ID : **441009401471**
Option 2 ID : **441009401473**
Option 3 ID : **441009401472**
Option 4 ID : **441009401470**
Status : **Answered**
Chosen Option : **4**

Q.12 For a dual combustion cycle for fixed value of heat addition and compression ratio, the _____.

Ans
✔ 1. mean effective pressure will be greater with increase in pressure ratio and decrease in compression ratio

✘ 2. mean effective pressure will be greater with decrease in pressure ratio and increase in compression ratio

✘ 3. mean effective pressure will be greater with decrease in pressure ratio and decrease in compression ratio

✘ 4. mean effective pressure remain the same with increase in pressure ratio and decrease in compression ratio

Question ID : **441009177242**
Option 1 ID : **441009700830**
Option 2 ID : **441009700833**
Option 3 ID : **441009700831**
Option 4 ID : **441009700832**
Status : **Answered**
Chosen Option : **2**

Q.12 What happens if a centrifugal pump is NOT primed before starting?

Ans
✘ 1. The impeller will rotate faster due to the presence of air.

✘ 2. The pump will function normally, but with reduced efficiency.

✔ 3. The air inside the pump will prevent it from creating sufficient suction.

✘ 4. The pump will generate a high head but fail to discharge water.

Question ID : **441009131356**
Option 1 ID : **441009521990**
Option 2 ID : **441009521989**
Option 3 ID : **441009521988**
Option 4 ID : **441009521987**
Status : **Answered**
Chosen Option : **3**

Q.12 In terms of energy consumption, how does a multi-stage compressor compare to a single-stage compressor?

Ans
✘ 1. Energy consumption is irrelevant

✔ 2. It consumes less energy for the same output

✘ 3. It consumes the same amount of energy

✘ 4. It consumes more energy

Question ID : **441009120680**
Option 1 ID : **441009479761**
Option 2 ID : **441009479759**
Option 3 ID : **441009479760**
Option 4 ID : **441009479758**
Status : **Answered**
Chosen Option : **2**

Q.13 0 The change in the length of a thin cylindrical shell of 100 cm diameter, 1 cm thickness, and 5 m length ($E = 2 \times 10^5$ N/mm² and $\mu = 0.3$), when subjected to an internal pressure of 3 N/mm² is:

Ans
✗ 1. 75 cm
✗ 2. 0.75 cm
✓ 3. 0.075 cm
✗ 4. 7.5 cm

Question ID : **441009139364**
Option 1 ID : **441009553735**
Option 2 ID : **441009553737**
Option 3 ID : **441009553738**
Option 4 ID : **441009553736**
Status : **Not Answered**
Chosen Option : **--**

Q.13 1 What happens when the number of plates are increased in a multi-plate clutch?

Ans
✗ 1. The clutch stops working.
✗ 2. The clutch becomes weaker.
✓ 3. The torque transmission capacity increases.
✗ 4. The clutch response time decreases.

Question ID : **441009100888**
Option 1 ID : **441009401562**
Option 2 ID : **441009401564**
Option 3 ID : **441009401565**
Option 4 ID : **441009401563**
Status : **Answered**
Chosen Option : **3**

Q.13 2 In the system, the ordinate of the Mollier diagram represents _____.

Ans
✓ 1. enthalpy
✗ 2. temperature
✗ 3. entropy
✗ 4. dryness fraction

Question ID : **441009151724**
Option 1 ID : **441009602076**
Option 2 ID : **441009602075**
Option 3 ID : **441009602077**
Option 4 ID : **441009602078**
Status : **Answered**
Chosen Option : **1**

Q.13 Which type of feed pump is commonly used in high-pressure boiler systems?
3

Ans
✔ 1. Reciprocating pump
✘ 2. Gear pump
✘ 3. Diaphragm pump
✘ 4. Centrifugal pump

Question ID : **441009104237**
Option 1 ID : **441009415137**
Option 2 ID : **441009415140**
Option 3 ID : **441009415139**
Option 4 ID : **441009415138**
Status : **Answered**
Chosen Option : **4**

Q.13 Why is shear stress considered tangential to the area over which it acts?
4

Ans
✘ 1. Because it causes elongation
✘ 2. Because it causes compression
✘ 3. Because it is a normal force
✔ 4. Because it acts along the surface of the area, causing sliding

Question ID : **441009130713**
Option 1 ID : **441009519388**
Option 2 ID : **441009519387**
Option 3 ID : **441009519386**
Option 4 ID : **441009519385**
Status : **Answered**
Chosen Option : **4**

Q.13 On an inclined plane, a block is resting. The inclination angle is progressively raised. The block only starts to slide when the angle approaches 30^{o}. What is the block's and the plane's angle of friction and coefficient of friction?
5

Ans
✔ 1. Angle of friction = 300; Coefficient of friction = tan300
✘ 2. Angle of friction = tan−1(0.5); Coefficient of friction = 0.50
✘ 3. Angle of friction = 300; Coefficient of friction = 0.50
✘ 4. Angle of friction = 600; Coefficient of friction = tan600

Question ID : **441009168911**
Option 1 ID : **441009668616**
Option 2 ID : **441009668617**
Option 3 ID : **441009668615**
Option 4 ID : **441009668618**
Status : **Answered**
Chosen Option : **1**

Q.13 The relation between circular pitch (p) and module (m) for a spur gear is _____.
6

Ans
1. p/m=1
2. p/m=Π
3. p X m=Π
4. p/m=1/Π

Question ID : **441009163139**
Option 1 ID : **441009646186**
Option 2 ID : **441009646188**
Option 3 ID : **441009646189**
Option 4 ID : **441009646187**
Status : **Answered**
Chosen Option : **2**

Q.13 The specific heat of a refrigerant is typically measured in SI units of:
7

Ans
1. kcal/kg·°C
2. J/kg·K
3. J/mol·°C
4. kJ/mol.K

Question ID : **44100996840**
Option 1 ID : **441009385393**
Option 2 ID : **441009385391**
Option 3 ID : **441009385394**
Option 4 ID : **441009385392**
Status : **Answered**
Chosen Option : **2**

Q.13 What is the primary source of heat for the refrigeration system?
8

Ans
1. Heat released by the refrigerant in the condenser
2. Work done on the refrigerant in the expansion valve
3. Work done by the compressor
4. Heat absorbed from the refrigerated space in the evaporator

Question ID : **44100997781**
Option 1 ID : **441009389133**
Option 2 ID : **441009389134**
Option 3 ID : **441009389131**
Option 4 ID : **441009389132**
Status : **Answered**
Chosen Option : **4**

Q.13 In which of the following examples does the shape of an object change by the application of force?

Ans
1. Kicking a football
2. A falling apple
3. Squeezing a sponge
4. A car coming to a stop

Question ID : **441009100964**
Option 1 ID : **441009401867**
Option 2 ID : **441009401869**
Option 3 ID : **441009401868**
Option 4 ID : **441009401866**
Status : **Answered**
Chosen Option : **3**

Q.14 The two fundamental stress components developed within the material of a thin-walled cylindrical pressure vessel when subjected to internal fluid pressure are:

Ans
1. hoop stress and longitudinal stress
2. shear stress and bending stress
3. compressive stress and tensile stress
4. radial stress and tangential stress

Question ID : **441009138827**
Option 1 ID : **441009551638**
Option 2 ID : **441009551636**
Option 3 ID : **441009551639**
Option 4 ID : **441009551637**
Status : **Answered**
Chosen Option : **1**

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