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Previous Year Paper

Electrical & Mechanical

29 Nov, 2025 Shift 1

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कोल इण्डिया लिमिटेड COAL INDIA LIMITED

Participant ID	
Participant Name	
Test Center Name	
Test Date	29/11/2025
Test Time	9:00 AM - 12:00 PM
Subject	Electrical and Mechanical

Section : Quantitative Aptitude and Data Analysis Test

Q.1 What will be the positive difference in the population of a town 3 years ago and 2 years ago, if its current population is 4,30,000 and the population has been increasing at a rate of 25% every year?

- Ans
- 1. 54,490
 - 2. 54,290
 - 3. 55,390
 - 4. 55,040

Question ID : 441009373416
 Option 1 ID : 4410091459250
 Option 2 ID : 4410091459251
 Option 3 ID : 4410091459252
 Option 4 ID : 4410091459249
 Status : Not Answered

Chosen Option : --

Q.2 The mean of an observation is 3.5 times of mode. If median is 16, what is the mode of observation?

- Ans
- 1. 6
 - 2. 12
 - 3. 8
 - 4. 3

Question ID : 441009123112
 Option 1 ID : 441009489354
 Option 2 ID : 441009489355
 Option 3 ID : 441009489353
 Option 4 ID : 441009489352
 Status : Not Answered

Chosen Option : --

Q.3 The original price of a music set is ₹9,000. The price is discounted by 10% and then raised by 25%. What is its new price (in ₹)?

- Ans 1. 9625
 2. 10125
 3. 9425
 4. 10625

Question ID : 441009373398
Option 1 ID : 4410091459178
Option 2 ID : 4410091459177
Option 3 ID : 4410091459180
Option 4 ID : 4410091459179
Status : Not Answered
Chosen Option : --

Q.4 The ratio of the speeds of two trucks is 7 : 3. The time taken by the faster truck to cover a distance of 126 km is 2 hours less than the time taken by the slower truck to cover an identical distance. Find the speed of the slower truck.

- Ans 1. 35 km/hr
 2. 39 km/hr
 3. 31 km/hr
 4. 36 km/hr

Question ID : 441009373517
Option 1 ID : 4410091459656
Option 2 ID : 4410091459655
Option 3 ID : 4410091459654
Option 4 ID : 4410091459653
Status : Not Answered
Chosen Option : --

Q.5 A man receives ₹2,910 per month as salary. He saves 60% of his salary every month. His expenditure per month is:

- Ans 1. ₹1,133
 2. ₹1,227
 3. ₹1,099
 4. ₹1,164

Question ID : 441009373449
Option 1 ID : 4410091459383
Option 2 ID : 4410091459382
Option 3 ID : 4410091459384
Option 4 ID : 4410091459381
Status : Not Answered
Chosen Option : --

Q.6 A shopkeeper marks an article at ₹x and offers a discount of 60% on it. He sells it for ₹460 after charging VAT of 25% on the discounted price. What is the value of ₹x?

- Ans 1. ₹920
 2. ₹1,100
 3. ₹900
 4. ₹800

Question ID : 441009373512
Option 1 ID : 4410091459633
Option 2 ID : 4410091459635
Option 3 ID : 4410091459634
Option 4 ID : 4410091459636
Status : Not Answered
Chosen Option : --

Q.7 Aarju starts business with ₹6,000 and after 3 months, Bimla joins with Aarju as her partner. After a year, the profit is divided in the ratio 8 : 9. What is Bimla's contribution in the capital?

- Ans 1. ₹9,045
 2. ₹10,425
 3. ₹9,250
 4. ₹9,000

Question ID : 441009373541
Option 1 ID : 4410091459752
Option 2 ID : 4410091459750
Option 3 ID : 4410091459751
Option 4 ID : 4410091459749
Status : Not Answered
Chosen Option : --

Q.8 Sapna invested ₹21,100 on simple interest, partly at 3% per annum and partly at 12% per annum. If she earns equal interests from the two investments after 4 years, then find the sum invested at 3% per annum (in ₹).

- Ans 1. 16879
 2. 16880
 3. 16883
 4. 16881

Question ID : 441009373445
Option 1 ID : 4410091459368
Option 2 ID : 4410091459365
Option 3 ID : 4410091459366
Option 4 ID : 4410091459367
Status : Not Answered
Chosen Option : --

Q.9 The surface area of a sphere is 55.44 cm^2 . The volume of the sphere :

(Take $\pi = \frac{22}{7}$)

- Ans
- 1. 37.718 cm^3
 - 2. 37.817 cm^3
 - 3. 38.118 cm^3
 - 4. 38.808 cm^3

Question ID : 441009123156
Option 1 ID : 441009489530
Option 2 ID : 441009489531
Option 3 ID : 441009489529
Option 4 ID : 441009489528
Status : Not Answered
Chosen Option : --

Q.10 If the mean proportion of 10 and A is 20, then what is the value of A?

- Ans
- 1. 40
 - 2. 41
 - 3. 38
 - 4. 43

Question ID : 441009373566
Option 1 ID : 4410091459849
Option 2 ID : 4410091459852
Option 3 ID : 4410091459850
Option 4 ID : 4410091459851
Status : Not Answered
Chosen Option : --

Section : Organizational Profile, Finance and Strategic Initiatives

Q.1 Which sector's coal consumption pattern is most sensitive to changes in environmental regulations?

- Ans
- 1. Steel manufacturing
 - 2. Cement industry
 - 3. Residential heating
 - 4. Thermal power plants

Question ID : 441009327367
Option 1 ID : 4410091275819
Option 2 ID : 4410091275820
Option 3 ID : 4410091275821
Option 4 ID : 4410091275818
Status : Not Answered
Chosen Option : --

Q.2 When was Coal India Limited formally established as a holding company to manage Coal Mines Authority Limited and Bharat Coking Coal Limited?

- Ans 1. 01/11/1975
 2. 01/10/1971
 3. 01/05/1973
 4. 01/01/1973

Question ID : 441009345792
Option 1 ID : 4410091349103
Option 2 ID : 4410091349104
Option 3 ID : 4410091349102
Option 4 ID : 4410091349101
Status : Not Answered
Chosen Option : --

Q.3 Which of the following statements is correct regarding the Coking Coal Mines (Emergency Provisions) Act, 1971?

- Ans 1. It privatised all coal mines in India.
 2. It led the Government of India to take over the management of 226 coking coal mines, excluding the 3 captive mines.
 3. It was enacted to privatise the management of coking coal mines.
 4. The Act was implemented on 1 May 1971 and covered only non-operational mines.

Question ID : 441009353813
Option 1 ID : 4410091381488
Option 2 ID : 4410091381490
Option 3 ID : 4410091381489
Option 4 ID : 4410091381491
Status : Not Answered
Chosen Option : --

Q.4 What was the value of the Final Dividend declared by CIL in FY 2023–24?

- Ans 1. ₹0 crore
 2. ₹2,156.97 crore
 3. ₹2,465.09 crore
 4. ₹1,848.82 crore

Question ID : 441009402330
Option 1 ID : 4410091574716
Option 2 ID : 4410091574715
Option 3 ID : 4410091574717
Option 4 ID : 4410091574714
Status : Not Answered
Chosen Option : --

Q.5 Which of the following statements reflects one of the key aspects of the CIL's Mission?

- Ans 1. Promoting only non-coal energy
 2. Reducing coal production
 3. Producing coal in an eco-friendly and efficient manner
 4. Importing all coal requirements

Question ID : 441009396824
Option 1 ID : 4410091552737
Option 2 ID : 4410091552736
Option 3 ID : 4410091552738
Option 4 ID : 4410091552739
Status : Not Answered
Chosen Option : --

Q.6 How much coal was produced by Coal India Ltd. in FY 2024, and what was the growth percentage compared to FY 2023?

- Ans
- 1. 703.204 million tonnes; 10% growth over FY 2023
 - 2. 700.000 million tonnes; 15% growth over FY 2023
 - 3. 773.647 million tonnes; 10% growth over FY 2023
 - 4. 770.647 million tonnes; 5% growth over FY 2023

Question ID : 441009355058
Option 1 ID : 4410091386308
Option 2 ID : 4410091386311
Option 3 ID : 4410091386310
Option 4 ID : 4410091386309
Status : Not Answered
Chosen Option : --

Q.7 What is the main reason for the strategic relevance of coal in terms of India's energy needs?

- Ans
- 1. It is more profitable in the international market.
 - 2. It is the cleanest energy source.
 - 3. Large reserves of it are available in India.
 - 4. Coal plants require no maintenance.

Question ID : 441009750397
Option 1 ID : 4410092955458
Option 2 ID : 4410092955456
Option 3 ID : 4410092955457
Option 4 ID : 4410092955459
Status : Not Answered
Chosen Option : --

Q.8 As per Financial Report - CIL FY 2023-24, what was the Coal Production from opencast mines in FY 2023-24?

- Ans
- 1. 75.68 Million tonnes
 - 2. 62.43 Million tonnes
 - 3. 440.43 Million tonnes
 - 4. 747.63 Million tonnes

Question ID : 441009360387
Option 1 ID : 4410091407565
Option 2 ID : 4410091407562
Option 3 ID : 4410091407563
Option 4 ID : 4410091407564
Status : Not Answered
Chosen Option : --

Q.9 CIL recorded a remarkable growth in offtake and wagon loading performance. It recorded the 8.5% increase in coal offtake over the previous year, setting new records in offtake and wagon loading performance. What was reason for this remarkable growth?

- Ans
- 1. Implementation of renewable energy policies
 - 2. Reduction in coal demand from various sectors
 - 3. Expansion of underground mining production
 - 4. Improvement in logistical efficiency and supply chain management

Question ID : 441009360658
Option 1 ID : 4410091408639
Option 2 ID : 4410091408641
Option 3 ID : 4410091408638
Option 4 ID : 4410091408640
Status : Not Answered
Chosen Option : --

Q.10 The Employees per Million Tonnes (EMS) ratio in CIL is a measure of:

- Ans
- 1. number of employees required to produce one million tonnes of coal
 - 2. energy consumption per unit of manpower
 - 3. cost of labour per tonne
 - 4. productivity of coal per employee per shift

Question ID : 441009337475
Option 1 ID : 4410091315865
Option 2 ID : 4410091315866
Option 3 ID : 4410091315864
Option 4 ID : 4410091315867
Status : Not Answered
Chosen Option : --

Section : Product Profile

Q.1 Which of the following is the correct order of increasing rank (from lowest to highest) of coal?

- Ans
- 1. Lignite, Bituminous, Anthracite, Peat
 - 2. Peat, Lignite, Bituminous, Anthracite
 - 3. Bituminous, Lignite, Peat, Anthracite
 - 4. Anthracite, Bituminous, Lignite, Peat

Question ID : 441009465618
Option 1 ID : 4410091821006
Option 2 ID : 4410091821005
Option 3 ID : 4410091821007
Option 4 ID : 4410091821008
Status : Answered
Chosen Option : 1

Q.2 As per DGMS guideline, no road shall have gradient more than:

- Ans 1. 1 in 16
 2. 1 in 2
 3. 1 in 10
 4. 1 in 7

Question ID : 441009772134
Option 1 ID : 4410093042529
Option 2 ID : 4410093042532
Option 3 ID : 4410093042530
Option 4 ID : 4410093042531
Status : Answered
Chosen Option : 1

Q.3 In the bord and pillar method, which layout feature is primarily designed to facilitate efficient ventilation and movement of men and materials within a mine?

- Ans 1. Inclined shaft with twin cages
 2. Checkerboard arrangement of roadways and pillars
 3. Central haulage shaft
 4. Pre-split blasting of the roof

Question ID : 441009979299
Option 1 ID : 4410093869749
Option 2 ID : 4410093869748
Option 3 ID : 4410093869747
Option 4 ID : 4410093869750
Status : Answered
Chosen Option : 1

Q.4 Which of the following factors most significantly affects the productivity of a shovel-dumper combination in opencast mining?

- Ans 1. The tyre pressure of the dumper
 2. The cycle time of loading and hauling
 3. Type of fuel used in the dumper
 4. Condition of haul road

Question ID : 441009982643
Option 1 ID : 4410093883038
Option 2 ID : 4410093883039
Option 3 ID : 4410093883040
Option 4 ID : 4410093883037
Status : Answered
Chosen Option : 4

Q.5 Raniganj Coalfield is located in which of the following coal-bearing linear belts of India?

- Ans 1. Koel - Karo
 2. Sone - Mahanadi
 3. Damodar Valley
 4. Satpura Area

Question ID : 441009831797
Option 1 ID : 4410093280353
Option 2 ID : 4410093280354
Option 3 ID : 4410093280355
Option 4 ID : 4410093280356
Status : Answered
Chosen Option : 3

Q.6 Which of the following best explains the coal deficit situation in India despite having the fifth-largest reserves globally?

- Ans 1. Delays in environmental clearances, logistics constraints, and demand surge
2. Export-oriented mining policy
3. Poor domestic coal quality
4. Inefficient pricing of imported coal

Question ID : 441009344860
Option 1 ID : 4410091345404
Option 2 ID : 4410091345402
Option 3 ID : 4410091345405
Option 4 ID : 4410091345403
Status : Answered
Chosen Option : 2

Q.7 What is the usual orientation of the longwall face in relation to panel development roadways?

- Ans 1. Parallel
2. Perpendicular
3. Diagonal
4. Circular

Question ID : 441009653013
Option 1 ID : 4410092566344
Option 2 ID : 4410092566345
Option 3 ID : 4410092566343
Option 4 ID : 4410092566346
Status : Answered
Chosen Option : 2

Q.8 Which equipment is most suitable when:
Blasting is not permitted,
Ripping is ineffective due to high material strength, and
Selective mining is required?

- Ans 1. Shovel
2. Surface Continuous Miner
3. Bucket Wheel Excavator
4. Dumper

Question ID : 441009832974
Option 1 ID : 4410093285001
Option 2 ID : 4410093285003
Option 3 ID : 4410093285000
Option 4 ID : 4410093285002
Status : Answered
Chosen Option : 1

Q.9 Which of the following is the primary advantage of opencast mining over underground mining?

- Ans 1. Suitable for very deep deposits
 2. Less environmental disturbance
 3. Safer working conditions and higher productivity
 4. Lower land requirement

Question ID : 441009832730
Option 1 ID : 4410093284135
Option 2 ID : 4410093284134
Option 3 ID : 4410093284133
Option 4 ID : 4410093284132
Status : Answered
Chosen Option : 3

Q.10 As per the Ministry of Coal, the gradation of coking coal is primarily based on which of the following parameters?

- Ans 1. Fixed carbon percentage
 2. Ash content
 3. Moisture content
 4. Gross Calorific Value (GCV)

Question ID : 441009978716
Option 1 ID : 4410093867514
Option 2 ID : 4410093867515
Option 3 ID : 4410093867516
Option 4 ID : 4410093867513
Status : Answered
Chosen Option : 1

Section : Rules of Conduct, Wages and Employee Welfare

Q.1 The Coal India Limited (CIL) Travelling Allowance Rules, 2010, came into effect for journeys commencing on or after:

- Ans 1. 1 April 2010
 2. 1 July 2010
 3. 1 October 2010
 4. 1 January 2010

Question ID : 441009355806
Option 1 ID : 4410091389313
Option 2 ID : 4410091389315
Option 3 ID : 4410091389314
Option 4 ID : 4410091389312
Status : Answered
Chosen Option : 2

Q.2 As per the Coal India Executives Conduct Discipline and Appeal Rules, 2021, information regarding foreign visits should be brought to the knowledge of the Competent Authority in:

- Ans 1. Form VB
 2. Form VC
 3. Form VD
 4. Form VE

Question ID : 441009500388
Option 1 ID : 4410091956750
Option 2 ID : 4410091956751
Option 3 ID : 4410091956752
Option 4 ID : 4410091956753
Status : Answered
Chosen Option : 3

Q.3 Which chapter of CIL Executive Defined Contribution Pension Scheme, 2007, talks about the contribution structure?

- Ans 1. Chapter IV
 2. Chapter II
 3. Chapter V
 4. Chapter III

Question ID : 441009368207
Option 1 ID : 4410091438798
Option 2 ID : 4410091438799
Option 3 ID : 4410091438800
Option 4 ID : 4410091438797
Status : Answered
Chosen Option : 1

Q.4 How is the travelling allowance calculated for an employee travelling by road in a stage carriage?

- Ans 1. Double fare
 2. Journey allowance
 3. Fare for a single seat
 4. Actual fare for multiple seats

Question ID : 441009372306
Option 1 ID : 4410091454851
Option 2 ID : 4410091454850
Option 3 ID : 4410091454849
Option 4 ID : 4410091454848
Status : Answered
Chosen Option : 3

Q.5 As per the Coal Mines Pension Scheme, 1998, after how many years of pensionable service does an employee become eligible for a monthly pension?

- Ans 1. 30 years
 2. 25 years
 3. 20 years
 4. 35 years

Question ID : 441009513917
 Option 1 ID : 4410092010999
 Option 2 ID : 4410092010998
 Option 3 ID : 4410092010997
 Option 4 ID : 4410092011000
 Status : Answered
 Chosen Option : 3

Q.6 Can a CIL employee claim travelling allowance for travel to their hometown?

- Ans 1. Yes, under certain circumstances
 2. Only for executives
 3. No, never
 4. Yes, always

Question ID : 441009650619
 Option 1 ID : 4410092556739
 Option 2 ID : 4410092556740
 Option 3 ID : 4410092556738
 Option 4 ID : 4410092556737
 Status : Answered
 Chosen Option : 3

Q.7 Which NCWA agreement reduced the period of upgradation from 10 years to 7/8 years?

- Ans 1. NCWA-VII
 2. NCWA-V
 3. NCWA-VI
 4. NCWA-VIII

Question ID : 441009649059
 Option 1 ID : 4410092550517
 Option 2 ID : 4410092550515
 Option 3 ID : 4410092550516
 Option 4 ID : 4410092550518
 Status : Answered
 Chosen Option : 4

Q.8 Which of the following is a condition for granting earned leave to executives?

- Ans 1. Completion of a certain period of service
 2. Approval from the management
 3. Good performance appraisal
 4. Availability of leave credits

Question ID : 441009655980
 Option 1 ID : 4410092578217
 Option 2 ID : 4410092578219
 Option 3 ID : 4410092578218
 Option 4 ID : 4410092578220
 Status : Answered
 Chosen Option : 2

Q.9 As per the Coal Mines Pension Scheme, 1998, can the employer's contribution be deducted from the employee's salary or benefits?

- Ans 1. No, it cannot be deducted from the employee's salary or benefits.
2. Yes, if the employee consents
3. Yes, in case of financial emergency
4. Only during the probation period

Question ID : 441009513916
Option 1 ID : 4410092010995
Option 2 ID : 4410092010993
Option 3 ID : 4410092010994
Option 4 ID : 4410092010996
Status : Answered
Chosen Option : 3

Q.10 How are the contributions invested under the CIL Executive Defined Contribution Pension Scheme 2007?

- Ans 1. In a savings account
2. In a fixed deposit
3. Not invested
4. In a variety of investment options

Question ID : 441009656394
Option 1 ID : 4410092579901
Option 2 ID : 4410092579900
Option 3 ID : 4410092579903
Option 4 ID : 4410092579902
Status : Answered
Chosen Option : 2

Q.11 As per Coal India Limited Medical Attendance Rules, in special cases, where prolonged physiotherapy is considered essential, the expenses for more than 20 sittings will be reimbursable provided prior approval of _____ is obtained.

- Ans 1. Chief Medical Officer (CMO)
2. Authorised Medical Attendant
3. Head of Department
4. Medical Superintendent of the treating hospital

Question ID : 441009371744
Option 1 ID : 4410091452815
Option 2 ID : 4410091452812
Option 3 ID : 4410091452814
Option 4 ID : 4410091452813
Status : Answered
Chosen Option : 4

Q.12 Can a CIL executive appeal against a decision made by the Disciplinary Authority?

- Ans 1. Yes, to the Appellate Authority
 2. Yes, to any authority
 3. Yes, to the Managing Director
 4. No

Question ID : 441009650450
Option 1 ID : 4410092556064
Option 2 ID : 4410092556066
Option 3 ID : 4410092556065
Option 4 ID : 4410092556063
Status : Answered
Chosen Option : 1

Q.13 Are non-executives entitled to carry forward earned leave credits to the next year under NCWA?

- Ans 1. Yes, without any limit
 2. Only with management's approval
 3. Yes, up to a certain limit
 4. No, not allowed

Question ID : 441009656193
Option 1 ID : 4410092579093
Option 2 ID : 4410092579096
Option 3 ID : 4410092579095
Option 4 ID : 4410092579094
Status : Answered
Chosen Option : 3

Q.14 Which document outlines the rules of conduct and employment terms for non-executives in CIL?

- Ans 1. Industrial Dispute Handbook
 2. National Coal Wage Agreement (NCWA)
 3. CIL Board Regulations
 4. Standing Orders Act

Question ID : 441009649046
Option 1 ID : 4410092550464
Option 2 ID : 4410092550465
Option 3 ID : 4410092550463
Option 4 ID : 4410092550466
Status : Answered
Chosen Option : 2

Q.15 What is the purpose of the Appellate Authority under the Coal India Executives' Conduct, Discipline, and Appeal Rules?

- Ans 1. To impose penalties
 2. To initiate disciplinary proceedings
 3. To manage coal production
 4. To hear appeals against disciplinary actions

Question ID : 441009371844
Option 1 ID : 4410091453217
Option 2 ID : 4410091453216
Option 3 ID : 4410091453219
Option 4 ID : 4410091453218
Status : Answered
Chosen Option : 2

Q.16 When an employee is sanctioned leave without pay, which of the following is true regarding payment of contributions for the period, as per CIL Executive Defined Contribution Pension Scheme – 2007?

- Ans 1. Only employee contribution shall be payable.
 2. Both employer and employee contributions shall be payable.
 3. Neither employer nor employee contribution shall be payable.
 4. Only employer contribution shall be payable.

Question ID : 441009372112
Option 1 ID : 4410091454184
Option 2 ID : 4410091454187
Option 3 ID : 4410091454186
Option 4 ID : 4410091454185
Status : Answered
Chosen Option : 4

Q.17 Can executives encash Half Pay Leave (HPL) during service at Coal India ?

- Ans 1. Yes, once every 5 years
 2. Yes, anytime upon request
 3. No, only on retirement
 4. Yes, up to 50%

Question ID : 441009649218
Option 1 ID : 4410092551147
Option 2 ID : 4410092551150
Option 3 ID : 4410092551149
Option 4 ID : 4410092551148
Status : Answered
Chosen Option : 4

Q.18 What is the rate of Half Pay Leave (HPL) entitlement for executives per year as per Coal India Executive Leave Rules 2010?

- Ans 1. 10 days
 2. 25 days
 3. 15 days
 4. 20 days

Question ID : 441009646899
Option 1 ID : 4410092541707
Option 2 ID : 4410092541710
Option 3 ID : 4410092541708
Option 4 ID : 4410092541709
Status : Answered
Chosen Option : 3

Q.19 For the purpose of Certified Standing orders of Subsidiaries of Coal India Limited, the workmen are classified into:

- Ans 1. 3 classes
 2. 4 classes
 3. 5 classes
 4. 6 classes

Question ID : 441009500269
Option 1 ID : 4410091956275
Option 2 ID : 4410091956276
Option 3 ID : 4410091956277
Option 4 ID : 4410091956278
Status : Answered
Chosen Option : 4

Q.20 What role do trade unions play under the framework of CIL Certified Standing orders of Subsidiaries in disciplinary matters?

- Ans 1. Appoint inquiry officer
 2. Mediate all disputes
 3. Decide the punishment
 4. Provide representation during hearings if authorised

Question ID : 441009649012
Option 1 ID : 4410092550328
Option 2 ID : 4410092550329
Option 3 ID : 4410092550331
Option 4 ID : 4410092550330
Status : Answered
Chosen Option : 2

Section : Important Statutes and Policies Concerning Coal India

Q.1 As per Mines Rules 1955, all questions, which the Committee is required to consider, shall be considered by which of the following method?

- Ans 1. Circulation through email
 2. Personal vote
 3. Circulation of papers
 4. Circulation through post

Question ID : 441009642432
Option 1 ID : 4410092523872
Option 2 ID : 4410092523874
Option 3 ID : 4410092523871
Option 4 ID : 4410092523873
Status : Answered
Chosen Option : 2

Q.2 What is the objective of Corporate Social Responsibility spending under Coal India's 2021 policy?

- Ans 1. Environment protection and promotion
 2. Focus on sustainable development
 3. Employee healthcare bonuses
 4. Shareholder welfare

Question ID : 441009281165
Option 1 ID : 4410091092550
Option 2 ID : 4410091092548
Option 3 ID : 4410091092549
Option 4 ID : 4410091092547
Status : Not Answered
Chosen Option : --

Q.3 Where is the corporate headquarters of Coal India's Environment Department, responsible for implementing its Corporate Environmental Policy, located?

- Ans 1. Mumbai
 2. Hyderabad
 3. Ahmedabad
 4. Kolkata

Question ID : 441009348507
Option 1 ID : 4410091360348
Option 2 ID : 4410091360346
Option 3 ID : 4410091360349
Option 4 ID : 4410091360347
Status : Answered
Chosen Option : 4

Q.4 Which of the following rules of the Mines Rules, 1955, requires the notification of vacancies in the mine?

- Ans 1. Rule 8
 2. Rule 10
 3. Rule 9
 4. Rule 7

Question ID : 441009375174
Option 1 ID : 4410091466259
Option 2 ID : 4410091466261
Option 3 ID : 4410091466258
Option 4 ID : 4410091466260
Status : Answered
Chosen Option : 1

Q.5 What is the primary objective of Coal India Limited's Safety Policy?

- Ans 1. To ensure the health and safety of employees
 2. Eliminate the need for mine inspections
 3. Outsource safety responsibilities to contractors
 4. Increase coal production at any cost

Question ID : 441009502838
Option 1 ID : 4410091966520
Option 2 ID : 4410091966519
Option 3 ID : 4410091966521
Option 4 ID : 4410091966518
Status : Answered
Chosen Option : 1

Q.6 As per THE CONTRACT LABOUR (REGULATION AND ABOLITION) ACT, 1970, any person aggrieved by an order made under section 7, section 8, section 12 or section 14 may, _____ from the date on which the order is communicated to him, prefer an appeal to an appellate officer who shall be a person nominated in this behalf by the appropriate government.

- Ans 1. within 30 days
 2. within 60 days
 3. within 20 days
 4. within 10 days

Question ID : 441009644503
Option 1 ID : 4410092532203
Option 2 ID : 4410092532204
Option 3 ID : 4410092532205
Option 4 ID : 4410092532206
Status : Answered
Chosen Option : 1

Q.7 As per the R&R Policy of Coal India, land losers shall have option to rehabilitation and resettlement benefits in accordance with awards in terms of entitlement passed by which of the following?

- Ans 1. State Government
 2. Collector
 3. Arbitrator
 4. Mine Inspector

Question ID : 441009642689
Option 1 ID : 4410092524900
Option 2 ID : 4410092524899
Option 3 ID : 4410092524901
Option 4 ID : 4410092524902
Status : Answered
Chosen Option : 1

Q.8 As per CIL ESG Report 2020-21, where is the headquarter of CIL located?

- Ans 1. Kolkata
 2. Mumbai
 3. New Delhi
 4. Chennai

Question ID : 441009376141
Option 1 ID : 4410091470119
Option 2 ID : 4410091470120
Option 3 ID : 4410091470118
Option 4 ID : 4410091470121
Status : Answered
Chosen Option : 3

Q.9 CIL is a government company; who appoints its functional directors as per the CIL ESG report?

- Ans
- 1. CIL Board
 - 2. Shareholders
 - 3. In General meeting
 - 4. President of India

Question ID : 441009619705
Option 1 ID : 4410092432965
Option 2 ID : 4410092432966
Option 3 ID : 4410092432967
Option 4 ID : 4410092432968
Status : Answered
Chosen Option : 3

Q.10 As per CIL, ESG report, 'Rejects' are the products of coal beneficiation process after separation of cleans and middlings, as a fraction of feed raw coal. They are used in which of the following?

- Ans
- 1. Mines cleaning
 - 2. Airplane fuel
 - 3. Fluidized Bed Combustion (FBC) Boilers for power generation
 - 4. Environment conservation

Question ID : 441009619486
Option 1 ID : 4410092432092
Option 2 ID : 4410092432093
Option 3 ID : 4410092432091
Option 4 ID : 4410092432094
Status : Answered
Chosen Option : 4

Section : General Awareness

Q.1 What was the nature of the Indian economy at the time of independence in 1947?

- Ans
- 1. Highly industrialised and developed
 - 2. Agrarian and underdeveloped
 - 3. Fully self-sufficient
 - 4. Dominated by heavy industries

Question ID : 441009138584
Option 1 ID : 441009550572
Option 2 ID : 441009550573
Option 3 ID : 441009550574
Option 4 ID : 441009550575
Status : Answered
Chosen Option : 2

Q.2 In February 2025, which state proposed that India's first AI University will be opened?

- Ans 1. Maharashtra
 2. Uttar Pradesh
 3. Gujarat
 4. Madhya Pradesh

Question ID : 441009122190
Option 1 ID : 441009485700
Option 2 ID : 441009485698
Option 3 ID : 441009485699
Option 4 ID : 441009485701
Status : Answered
Chosen Option : 4

Q.3 Which autobiography by Kailash Satyarthi was explored at Indira Gandhi National Centre for the Arts IGNCIA in March 2025?

- Ans 1. Light the Way
 2. Fireflies
 3. Beacon of Hope
 4. Diyaslai

Question ID : 44100996716
Option 1 ID : 441009384897
Option 2 ID : 441009384896
Option 3 ID : 441009384898
Option 4 ID : 441009384895
Status : Answered
Chosen Option : 2

Q.4 As of March 2025, which sector contributes the most to India's GDP after 1991 reforms?

- Ans 1. Services
 2. Agriculture
 3. Industry
 4. Mining

Question ID : 441009138470
Option 1 ID : 441009550113
Option 2 ID : 441009550111
Option 3 ID : 441009550112
Option 4 ID : 441009550114
Status : Answered
Chosen Option : 3

Q.5 Which Five-Year Plan of India was terminated one year before its completion?

- Ans 1. Sixth Plan
 2. Fourth Plan
 3. Third Plan
 4. Fifth Plan

Question ID : 441009138515
Option 1 ID : 441009550283
Option 2 ID : 441009550282
Option 3 ID : 441009550280
Option 4 ID : 441009550281
Status : Not Answered
Chosen Option : --

Q.6 The concept of 'Human Development' was introduced by:

- Ans 1. Karl Marx
 2. John Maynard Keynes
 3. Mahbub ul Haq
 4. Amartya Sen

Question ID : 441009127651
Option 1 ID : 441009507229
Option 2 ID : 441009507232
Option 3 ID : 441009507231
Option 4 ID : 441009507230
Status : Answered
Chosen Option : 1

Q.7 Who is the author of the book 'On Beauty' published in November 2024?

- Ans 1. Vikram Seth
 2. Chetan Bhagat
 3. Prathyush Parasuraman
 4. Jhupma Lahiri

Question ID : 441009122637
Option 1 ID : 441009487454
Option 2 ID : 441009487457
Option 3 ID : 441009487456
Option 4 ID : 441009487455
Status : Answered
Chosen Option : 3

Q.8 Which book of Arun Mohan Sukumar was published in September 2024?

- Ans 1. Breaking the Mould
 2. Midnight's Machines
 3. The Last Song of Dusk
 4. Who is Equal

Question ID : 441009122622
Option 1 ID : 441009487397
Option 2 ID : 441009487395
Option 3 ID : 441009487394
Option 4 ID : 441009487396
Status : Answered
Chosen Option : 3

Q.9 The Green Revolution in India mainly focused on which of the following options?

- Ans 1. Cash crops
 2. Food grains
 3. Horticulture
 4. Livestock farming

Question ID : 441009138543
Option 1 ID : 441009550396
Option 2 ID : 441009550397
Option 3 ID : 441009550399
Option 4 ID : 441009550398
Status : Answered
Chosen Option : 3

Q.10 Which of the following statements about India's foreign trade at the time of independence is true?

- Ans 1. India had a trade surplus.
2. India's trade was largely controlled by the British.
3. India was a major exporter of manufactured goods.
4. India had a well-diversified trade market.

Question ID : 441009138566
Option 1 ID : 441009550500
Option 2 ID : 441009550501
Option 3 ID : 441009550502
Option 4 ID : 441009550503
Status : Answered
Chosen Option : 2

Q.11 Which of the following Indian states passed a law creating a Commission for Senior Citizens in March 2025?

- Ans 1. Gujarat
2. Karnataka
3. Kerala
4. Madhya Pradesh

Question ID : 441009122335
Option 1 ID : 441009486273
Option 2 ID : 441009486270
Option 3 ID : 441009486272
Option 4 ID : 441009486271
Status : Answered
Chosen Option : 4

Q.12 In which of the following places did PM Narendra Modi inaugurate the India Mobility Global Expo in January 2025?

- Ans 1. Gurugram
2. Bengaluru
3. Bhopal
4. New Delhi

Question ID : 441009122296
Option 1 ID : 441009486106
Option 2 ID : 441009486107
Option 3 ID : 441009486108
Option 4 ID : 441009486109
Status : Answered
Chosen Option : 4

Q.13 What is the primary purpose of the mBridge Project promoted by central banks of countries like China and Thailand with support from the Bank for International Settlements (BIS)?

- Ans
- 1. Improve the security of online banking transactions
 - 2. Establish a global cryptocurrency trading platform
 - 3. Create a cross-border digital currency payment system
 - 4. Promote international trade agreements

Question ID : 441009147230
Option 1 ID : 441009584752
Option 2 ID : 441009584751
Option 3 ID : 441009584750
Option 4 ID : 441009584749
Status : Answered
Chosen Option : 2

Q.14 Which country did the United States of America attack in March 2025?

- Ans
- 1. Pakistan
 - 2. Iran
 - 3. Syria
 - 4. Yemen

Question ID : 441009122070
Option 1 ID : 441009485243
Option 2 ID : 441009485245
Option 3 ID : 441009485242
Option 4 ID : 441009485244
Status : Answered
Chosen Option : 3

Q.15 In February 2025, in which city did President Draupadi Murmu inaugurate the National Tribal Festival 'Aadi Mahotsav'?

- Ans
- 1. Bhopal
 - 2. Raipur
 - 3. Bhubaneswar
 - 4. New Delhi

Question ID : 441009122163
Option 1 ID : 441009485598
Option 2 ID : 441009485599
Option 3 ID : 441009485600
Option 4 ID : 441009485601
Status : Answered
Chosen Option : 4

Q.16 Who was the recipient of the 2024 Arjuna Award (Lifetime) for outstanding performance in athletics?

- Ans 1. Swapnil Suresh Kusale
 2. Sucha Singh
 3. Abhay Singh
 4. Deepali Deshpande

Question ID : 441009122803
Option 1 ID : 441009488124
Option 2 ID : 441009488122
Option 3 ID : 441009488123
Option 4 ID : 441009488121
Status : Answered
Chosen Option : 1

Q.17 Which revolution is associated with the rapid growth of milk production in India?

- Ans 1. Blue Revolution
 2. Green Revolution
 3. Pink Revolution
 4. White Revolution

Question ID : 441009138446
Option 1 ID : 441009550021
Option 2 ID : 441009550020
Option 3 ID : 441009550022
Option 4 ID : 441009550019
Status : Answered
Chosen Option : 4

Q.18 Which of the following is NOT used as an indicator in the calculation of HDI?

- Ans 1. Literacy rate
 2. Life expectancy at birth
 3. Global Innovation Index
 4. Gross National Income per capita

Question ID : 441009135504
Option 1 ID : 441009538535
Option 2 ID : 441009538533
Option 3 ID : 441009538536
Option 4 ID : 441009538534
Status : Answered
Chosen Option : 3

Q.19 Which organisation plays a central role in formulating monetary policy in India?

- Ans 1. SEBI (Securities and Exchange Board of India)
 2. RBI (Reserve Bank of India)
 3. Finance Ministry of India
 4. NITI Aayog

Question ID : 441009127662
Option 1 ID : 441009507274
Option 2 ID : 441009507273
Option 3 ID : 441009507276
Option 4 ID : 441009507275
Status : Answered
Chosen Option : 4

Q.20 In which month in the year 2025 did the European Free Trade Association (EFTA) and Thailand sign a comprehensive Free Trade Agreement (FTA)?

- Ans 1. March 2025
 2. January 2025
 3. February 2025
 4. April 2025

Question ID : 441009177272
Option 1 ID : 441009700948
Option 2 ID : 441009700946
Option 3 ID : 441009700949
Option 4 ID : 441009700947
Status : Answered
Chosen Option : 3

Section : English Language Proficiency and Comprehension

Q.1 Sentences of a paragraph are given below in jumbled order. Arrange the sentences in the correct order to form a meaningful and coherent paragraph.

- A) Waste management means collecting, transporting, processing, recycling and monitoring of the waste materials.
B) Waste management helps to preserve the environment and make the surrounding area safe for people and animals.
C) The term waste management generally relates to those materials which are produced by human activity and is usually undertaken to reduce the effect of these activities on their health and environment.
D) The Government of India has launched Swachh Bharat, also known as Swachh Bharat Abhiyan, a nationwide campaign to clean up the nation's streets and highways.⁴⁷²

- Ans 1. ABDC
 2. ACBD
 3. BADC
 4. ADCB

Question ID : 4410091112394
Option 1 ID : 4410094385666
Option 2 ID : 4410094385667
Option 3 ID : 4410094385665
Option 4 ID : 4410094385668
Status : Answered
Chosen Option : 3

Q.2 Select the most appropriate ANTONYM of the underlined word in the given sentence.

The instructions were explicit, leaving no room for confusion.

- Ans 1. Obscure
 2. Detailed
 3. Direct
 4. Clear

Question ID : 4410091136029
Option 1 ID : 4410094479362
Option 2 ID : 4410094479361
Option 3 ID : 4410094479364
Option 4 ID : 4410094479363
Status : Answered
Chosen Option : 1

Q.3 Select the most appropriate option to fill in the blank.

The conference participants were _____ engaged in the discussions and workshops.

- Ans 1. actively
 2. occasionally
 3. intermittently
 4. passively

Question ID : 4410091102421
Option 1 ID : 4410094347044
Option 2 ID : 4410094347043
Option 3 ID : 4410094347045
Option 4 ID : 4410094347042
Status : Answered
Chosen Option : 3

Q.4 Select the option that can be used as a one-word substitute for the given description.

A person who is skilled in several languages

- Ans 1. Philologist
 2. Linguist
 3. Polyglot
 4. Orator

Question ID : 441009108321
Option 1 ID : 441009431272
Option 2 ID : 441009431271
Option 3 ID : 441009431270
Option 4 ID : 441009431273
Status : Answered
Chosen Option : 2

Q.5 Select the proverb that conveys the same meaning as the underlined segment in the given sentence.

Yash always double-checks his work because he believes that doing a small task now can prevent bigger problems later.

- Ans 1. Once bitten, twice shy
 2. A stitch in time saves nine
 3. Honesty is the best policy
 4. The early bird catches the worm

Question ID : 441009164375
Option 1 ID : 441009651114
Option 2 ID : 441009651115
Option 3 ID : 441009651116
Option 4 ID : 441009651117
Status : Answered
Chosen Option : 1

Q.6 Select the option that rectifies the underlined incorrectly spelt word in the given sentence. She was priviledged to attend the prestigious university, which was known for its excellence.

- Ans 1. Privilidged
 2. Privilegde
 3. Priviledged
 4. Privileged

Question ID : 441009108366
 Option 1 ID : 441009431449
 Option 2 ID : 441009431447
 Option 3 ID : 441009431446
 Option 4 ID : 441009431448
 Status : Answered
 Chosen Option : 2

Q.7 Select the most appropriate article to fill in the blank. If no article is needed, select 'No article required'.

She looked up at ____ sky and saw a rainbow.

- Ans 1. a
 2. an
 3. the
 4. No article required

Question ID : 441009108241
 Option 1 ID : 441009430974
 Option 2 ID : 441009430975
 Option 3 ID : 441009430976
 Option 4 ID : 441009430977
 Status : Answered
 Chosen Option : 3

Comprehension:

Read the given passage and answer the questions that follow.

In warfare, strategy is often far more powerful and effective than mere brute strength or simply the size of an army. A skilled and experienced general understands that achieving victory depends not only on the number of soldiers but also on careful intelligence, detailed planning, and wise decision-making. Sun Tzu, the renowned Chinese military strategist from ancient times, emphasized the critical importance of deception, flexibility, and adaptability in the heat of battle. He advised leaders to study and understand their enemies deeply in order to exploit their weaknesses to the fullest advantage. As he famously wrote, "The supreme art of war is to subdue the enemy without fighting." These timeless teachings, although written many centuries ago, have proven to be incredibly relevant even in modern times. They are often applied not only in military contexts but also in areas like modern leadership, business competition, and international diplomacy, where effective strategy and careful insight can make all the difference between success and failure.

SubQuestion No : 8

Q.8 What is the summary of the passage?

- Ans 1. Sun Tzu's strategies are irrelevant today.
 2. Sun Tzu believed deception and planning were key to success.
 3. Warfare requires only strength and weapons.
 4. The size of an army determines the outcome of war.

Question ID : 441009108471
 Option 1 ID : 441009431823
 Option 2 ID : 441009431821
 Option 3 ID : 441009431820
 Option 4 ID : 441009431822
 Status : Answered
 Chosen Option : 2

Comprehension:

Read the given passage and answer the questions that follow.

In warfare, strategy is often far more powerful and effective than mere brute strength or simply the size of an army. A skilled and experienced general understands that achieving victory depends not only on the number of soldiers but also on careful intelligence, detailed planning, and wise decision-making. Sun Tzu, the renowned Chinese military strategist from ancient times, emphasized the critical importance of deception, flexibility, and adaptability in the heat of battle. He advised leaders to study and understand their enemies deeply in order to exploit their weaknesses to the fullest advantage. As he famously wrote, "The supreme art of war is to subdue the enemy without fighting." These timeless teachings, although written many centuries ago, have proven to be incredibly relevant even in modern times. They are often applied not only in military contexts but also in areas like modern leadership, business competition, and international diplomacy, where effective strategy and careful insight can make all the difference between success and failure.

SubQuestion No : 9

Q.9 How can Sun Tzu's ideas be connected to the modern world?

- Ans 1. His principles apply only to military battles.
2. His strategies are outdated and no longer used.
3. His book is only studied for historical interest.
4. His ideas are widely used in business and leadership.

Question ID : 441009108472

Option 1 ID : 441009431825

Option 2 ID : 441009431824

Option 3 ID : 441009431827

Option 4 ID : 441009431826

Status : Answered

Chosen Option : 1

Comprehension:

Read the given passage and answer the questions that follow.

In warfare, strategy is often far more powerful and effective than mere brute strength or simply the size of an army. A skilled and experienced general understands that achieving victory depends not only on the number of soldiers but also on careful intelligence, detailed planning, and wise decision-making. Sun Tzu, the renowned Chinese military strategist from ancient times, emphasized the critical importance of deception, flexibility, and adaptability in the heat of battle. He advised leaders to study and understand their enemies deeply in order to exploit their weaknesses to the fullest advantage. As he famously wrote, "The supreme art of war is to subdue the enemy without fighting." These timeless teachings, although written many centuries ago, have proven to be incredibly relevant even in modern times. They are often applied not only in military contexts but also in areas like modern leadership, business competition, and international diplomacy, where effective strategy and careful insight can make all the difference between success and failure.

SubQuestion No : 10

Q.10 Which option best describes the tone of the passage?

- Ans 1. Descriptive and nostalgic
2. Emotional and persuasive
3. Logical and instructive
4. Humorous and sarcastic

Question ID : 441009108473

Option 1 ID : 441009431831

Option 2 ID : 441009431829

Option 3 ID : 441009431828

Option 4 ID : 441009431830

Status : Answered

Chosen Option : 3

Q.1 In MS Word, how can you change the spacing between lines of text?

- Ans 1. By changing line spacing in the Paragraph group
2. By inserting a page break
3. By adjusting text alignment
4. By modifying the font

Question ID : 441009908936
Option 1 ID : 4410093589603
Option 2 ID : 4410093589605
Option 3 ID : 4410093589602
Option 4 ID : 4410093589604
Status : Answered
Chosen Option : 4

Q.2 In the URL www.ncert.nic.in/textbook/textbook.html, what does "www.ncert.nic.in" represent?

- Ans 1. The file path
2. The domain name
3. The protocol
4. The full URL

Question ID : 441009150334
Option 1 ID : 441009596579
Option 2 ID : 441009596577
Option 3 ID : 441009596578
Option 4 ID : 441009596576
Status : Answered
Chosen Option : 2

Q.3 Which tab would you use to change the theme of your presentation?

- Ans 1. File
2. Insert
3. Design
4. Slide Show

Question ID : 441009136234
Option 1 ID : 441009541367
Option 2 ID : 441009541370
Option 3 ID : 441009541368
Option 4 ID : 441009541369
Status : Answered
Chosen Option : 1

Q.4 Which formula correctly calculates the average of values in cells A1 to A10, while automatically ignoring blank cells and text entries?

- Ans 1. =SUM(A1:A10)/COUNT(A1:A10)
2. =SUM(A1:A10)/COUNTA(A1:A10)
3. =AVERAGE(A1:A10)
4. =AVERAGEIF(A1:A10,">0")

Question ID : 441009123739
Option 1 ID : 441009491860
Option 2 ID : 441009491862
Option 3 ID : 441009491859
Option 4 ID : 441009491861
Status : Answered
Chosen Option : 4

Q.5 Which keyboard shortcut is typically used to access the print dialog in most web browsers?

- Ans 1. Ctrl + P
 2. Ctrl + S
 3. Ctrl + V
 4. Ctrl + Z

Question ID : 441009125711
Option 1 ID : 441009499637
Option 2 ID : 441009499636
Option 3 ID : 441009499638
Option 4 ID : 441009499639
Status : Answered
Chosen Option : 2

Q.6 What does the abbreviation ASCII stand for in the context of computer data representation?

- Ans 1. American Standard Code for Information Interchange
 2. American System Code for Internet Integration
 3. American Standard Code for Internet Interchange
 4. Advanced System Code for Information Integration

Question ID : 441009138215
Option 1 ID : 441009549089
Option 2 ID : 441009549088
Option 3 ID : 441009549090
Option 4 ID : 441009549087
Status : Answered
Chosen Option : 4

Q.7 What is typical data transfer speed now-a-days in high-performance or enterprise LAN?

- Ans 1. 10-1000 Mbps
 2. 5000-10000 Mbps
 3. 1 Gbps – 10 Gbps
 4. 1-5 Mbps

Question ID : 441009130653
Option 1 ID : 441009519150
Option 2 ID : 441009519151
Option 3 ID : 441009519152
Option 4 ID : 441009519149
Status : Answered
Chosen Option : 4

Q.8 What is the term for the process of dividing a document into sections, each with its own formatting and layout settings, in Microsoft Word 2019?

- Ans 1. Section breaking
 2. Column breaking
 3. Page breaking
 4. Text wrapping

Question ID : 441009506160
Option 1 ID : 4410091979799
Option 2 ID : 4410091979800
Option 3 ID : 4410091979798
Option 4 ID : 4410091979801
Status : Answered
Chosen Option : 4

Q.9 What is the default file extension for MS PowerPoint (2007 or later) presentations?

- Ans 1. .pptom
 2. .docx
 3. .xlsx
 4. .pptx

Question ID : 441009163594
Option 1 ID : 441009648022
Option 2 ID : 441009648021
Option 3 ID : 441009648019
Option 4 ID : 441009648020
Status : Answered
Chosen Option : 2

Q.10 Which of the following is NOT a type of chart available in MS Excel?

- Ans 1. Line Chart
 2. Pie Chart
 3. Flowchart
 4. Bar Chart

Question ID : 441009135497
Option 1 ID : 441009538505
Option 2 ID : 441009538508
Option 3 ID : 441009538507
Option 4 ID : 441009538506
Status : Answered
Chosen Option : 4

Section : Domain Knowledge Finance

Q.1 What lifesaving action is recommended if a person suffers such a shock and stops breathing?

- Ans 1. Administer medication
 2. Perform artificial respiration and CPR
 3. Give them water
 4. Apply cold compress

Question ID : 441009284752
Option 1 ID : 4410091106075
Option 2 ID : 4410091106076
Option 3 ID : 4410091106077
Option 4 ID : 4410091106074
Status : Answered
Chosen Option : 2

Q.2 In a single-phase circuit with a unity power factor, how is the wattmeter connected for correct measurement of power?

- Ans 1. Current coil in series and pressure coil in parallel
 2. Both coils connected in parallel
 3. Current coil in parallel and pressure coil in series
 4. Both coils connected in series

Question ID : 441009191998
Option 1 ID : 441009756647
Option 2 ID : 441009756648
Option 3 ID : 441009756645
Option 4 ID : 441009756646
Status : Answered
Chosen Option : 4

Q.3 If a lamp emits 1000 lumens uniformly over a surface area of 2 m², what is the resulting illumination on the surface?

- Ans 1. 100 lux
 2. 2000 lux
 3. 500 lux
 4. 200 lux

Question ID : 441009182067
Option 1 ID : 441009719773
Option 2 ID : 441009719775
Option 3 ID : 441009719774
Option 4 ID : 441009719772
Status : Answered
Chosen Option : 4

Q.4 Which factor is NOT considered when designing a winding engine's suspension gear?

- Ans 1. The type of mineral being extracted
 2. The depth of the mine shaft
 3. The environmental conditions in the mine
 4. The weight of the hoist cage and load

Question ID : 441009180707
Option 1 ID : 441009714147
Option 2 ID : 441009714145
Option 3 ID : 441009714146
Option 4 ID : 441009714144
Status : Answered
Chosen Option : 2

Q.5 What is predictive maintenance in a coal handling plant?

- Ans 1. Fixed-time maintenance schedules
 2. Condition monitoring to detect degradation early
 3. Designing out the root causes of failure
 4. Repairs after failure occurs

Question ID : 441009181135
Option 1 ID : 441009715947
Option 2 ID : 441009715946
Option 3 ID : 441009715948
Option 4 ID : 441009715945
Status : Answered
Chosen Option : 2

Q.6 Which of the following statements is true about the accuracy of a voltmeter?

- Ans 1. A voltmeter with low internal resistance will draw less current and lead to higher accuracy.
2. A voltmeter with high internal resistance will draw more current and result in lower accuracy.
3. A voltmeter with high internal resistance will draw negligible current and improve accuracy.
4. A voltmeter's accuracy is unaffected by its internal resistance.

Question ID : 441009191990
Option 1 ID : 441009756614
Option 2 ID : 441009756613
Option 3 ID : 441009756615
Option 4 ID : 441009756616
Status : Answered
Chosen Option : 4

Q.7 How do hydraulic hoses contribute to energy conservation in systems where diesel leakage is a concern?

- Ans 1. By reducing the fluid pressure
2. By minimising fluid leakage and reducing energy waste
3. By increasing the fluid flow rate
4. By increasing the fluid temperature

Question ID : 441009186983
Option 1 ID : 441009738785
Option 2 ID : 441009738786
Option 3 ID : 441009738784
Option 4 ID : 441009738787
Status : Answered
Chosen Option : 3

Q.8 What type of safety gear is essential for miners working in dusty environments?

- Ans 1. Flame-resistant suits
2. Dust respirators or masks
3. Welding goggles
4. Safety boots

Question ID : 441009179886
Option 1 ID : 441009710881
Option 2 ID : 441009710880
Option 3 ID : 441009710878
Option 4 ID : 441009710879
Status : Answered
Chosen Option : 2

Q.9 Why is lubrication critical in mining machinery such as underground loaders, trucks, and drills?

- Ans
- 1. To make machinery lighter and more portable
 - 2. To reduce the operational speed of machinery
 - 3. To ensure continuous operation without interruptions and withstand high temperatures, pressure, and explosions
 - 4. To improve the machinery's aesthetics and appearance

Question ID : 441009185240
Option 1 ID : 441009732297
Option 2 ID : 441009732294
Option 3 ID : 441009732296
Option 4 ID : 441009732295
Status : Answered
Chosen Option : 3

Q.10 Which of the following materials is commonly used in noble thermocouples?

- Ans
- 1. Iron
 - 2. Copper
 - 3. Platinum
 - 4. Aluminium

Question ID : 441009185677
Option 1 ID : 441009734005
Option 2 ID : 441009734004
Option 3 ID : 441009734006
Option 4 ID : 441009734007
Status : Answered
Chosen Option : 2

Q.11 What is the primary function of a Side Discharge Loader (SDL)?

- Ans
- 1. To drill holes in rock
 - 2. To transport materials over long distances
 - 3. To load broken rocks onto a conveyor or into a tub
 - 4. To transport materials to a higher elevation

Question ID : 441009185373
Option 1 ID : 441009732812
Option 2 ID : 441009732814
Option 3 ID : 441009732813
Option 4 ID : 441009732815
Status : Answered
Chosen Option : 3

Q.12 What is a significant advantage of using Light Emitting Diodes (LEDs) over incandescent lamps in mining applications?

- Ans
- 1. Higher initial cost
 - 2. Poor colour rendering
 - 3. Lower energy consumption
 - 4. Shorter lifespan

Question ID : 441009186542
Option 1 ID : 441009737234
Option 2 ID : 441009737237
Option 3 ID : 441009737235
Option 4 ID : 441009737236
Status : Answered
Chosen Option : 3

Q.13 Which type of haulage system is commonly used for main level transport in underground coal mines?

- Ans 1. Endless rope haulage
 2. Scraper haulage
 3. Gravity haulage
 4. Monorail haulage

Question ID : 441009180477
Option 1 ID : 441009713215
Option 2 ID : 441009713216
Option 3 ID : 441009713214
Option 4 ID : 441009713217
Status : Answered
Chosen Option : 4

Q.14 The connected load of a consumer is 5 kW and his maximum demand is 4 kW. The load factor is 0.5. What is the average load?

- Ans 1. 2.5 KW
 2. 2.0 KW
 3. 1.5 KW
 4. 3.0 KW

Question ID : 441009284716
Option 1 ID : 4410091105924
Option 2 ID : 4410091105923
Option 3 ID : 4410091105922
Option 4 ID : 4410091105925
Status : Answered
Chosen Option : 2

Q.15 Which of the following is a limitation of breakdown maintenance?

- Ans 1. It prevents unexpected failures.
 2. It leads to equipment downtime that is unpredictable and disruptive.
 3. It avoids unscheduled repairs.
 4. It prevents the need for parts inventories.

Question ID : 441009176622
Option 1 ID : 441009698402
Option 2 ID : 441009698404
Option 3 ID : 441009698401
Option 4 ID : 441009698403
Status : Answered
Chosen Option : 2

Q.16 LED lamps are more efficient than traditional lamps because they _____.

- Ans 1. generate less heat and more light
 2. use mercury
 3. are larger
 4. consume more current

Question ID : 441009284754
Option 1 ID : 4410091106083
Option 2 ID : 4410091106085
Option 3 ID : 4410091106084
Option 4 ID : 4410091106082
Status : Answered
Chosen Option : 1

Q.17 In mining ventilation, what is the primary purpose of a booster fan?

- Ans 1. To replace the main fan in case of failure
2. To provide additional airflow in specific sections of the mine
3. To cool mining equipment
4. To filter dust particles from the air

Question ID : 441009181023
Option 1 ID : 441009715445
Option 2 ID : 441009715446
Option 3 ID : 441009715447
Option 4 ID : 441009715448
Status : Answered
Chosen Option : 2

Q.18 Which of the following is an example of routine maintenance?

- Ans 1. Replacing a deteriorated machine part
2. Installing a new production line
3. Redesigning a machine for higher output
4. Conducting a financial audit

Question ID : 441009176476
Option 1 ID : 441009697820
Option 2 ID : 441009697821
Option 3 ID : 441009697819
Option 4 ID : 441009697822
Status : Answered
Chosen Option : 2

Q.19 Which of the following conditions must hold true for Ohm's Law to be valid?

- Ans 1. Voltage must be zero.
2. Temperature must remain constant.
3. Resistance must be infinite.
4. Material must be non-metallic.

Question ID : 441009284768
Option 1 ID : 4410091106149
Option 2 ID : 4410091106147
Option 3 ID : 4410091106148
Option 4 ID : 4410091106146
Status : Answered
Chosen Option : 2

Q.20 What can happen if equipment that requires lubrication is not maintained properly?

- Ans 1. It will never stop working.
2. It will automatically lubricate itself.
3. It will increase the production speed.
4. It may work slower and reduce the line efficiency.

Question ID : 441009176538
Option 1 ID : 441009698064
Option 2 ID : 441009698061
Option 3 ID : 441009698062
Option 4 ID : 441009698063
Status : Answered
Chosen Option : 4

Q.21 In pipe earthing, which material and dimension are commonly recommended for the earth electrode as per standard practice?

- Ans 1. GI pipe of 38 mm diameter and 1 m length
 2. GI pipe of 38 mm diameter and 2.5 m length
 3. Copper pipe of 2 cm diameter and 1 m length
 4. PVC pipe of 25 mm diameter and 1.5 m length

Question ID : 441009181701
Option 1 ID : 441009718312
Option 2 ID : 441009718313
Option 3 ID : 441009718311
Option 4 ID : 441009718314
Status : Answered
Chosen Option : 2

Q.22 What is the primary purpose of installing a capacitor bank in an industrial electrical system?

- Ans 1. Reduce frequency
 2. Increase voltage drop
 3. Increase current flow
 4. Improve power factor

Question ID : 441009186735
Option 1 ID : 441009737785
Option 2 ID : 441009737784
Option 3 ID : 441009737782
Option 4 ID : 441009737783
Status : Answered
Chosen Option : 4

Q.23 Which of the following is a common maintenance task for ventilation fans?

- Ans 1. Painting the fan blades
 2. Shortening the fan blades
 3. Replacing the fan motor with a larger one
 4. Lubricating the fan bearings

Question ID : 441009181068
Option 1 ID : 441009715633
Option 2 ID : 441009715636
Option 3 ID : 441009715635
Option 4 ID : 441009715634
Status : Answered
Chosen Option : 4

Q.24 Which type of pump is generally preferred for handling high-viscosity fluids in mining operations?

- Ans 1. Axial flow pump
 2. Jet pump
 3. Centrifugal pump
 4. Reciprocating pump

Question ID : 441009180988
Option 1 ID : 441009715287
Option 2 ID : 441009715288
Option 3 ID : 441009715285
Option 4 ID : 441009715286
Status : Not Answered
Chosen Option : --

Q.25 Which of the following is NOT a function of mining lubricants?

- Ans 1. Preventing and minimising friction
 2. Providing sealing and energy transfer
 3. Enhancing surface roughness
 4. Facilitating heat removal

Question ID : 441009184129
Option 1 ID : 441009727895
Option 2 ID : 441009727898
Option 3 ID : 441009727897
Option 4 ID : 441009727896
Status : Answered
Chosen Option : 3

Q.26 What is the primary function of a continuous miner in underground coal mining?

- Ans 1. Cut and load coal at the face
 2. Drill holes for blasting
 3. Transport coal to surface
 4. Support roof structures

Question ID : 441009180307
Option 1 ID : 441009712543
Option 2 ID : 441009712545
Option 3 ID : 441009712542
Option 4 ID : 441009712544
Status : Answered
Chosen Option : 1

Q.27 Which condition most likely requires immediate replacement of a transmission filter during a routine inspection?

- Ans 1. The filter appears clean but the transmission fluid is discoloured.
 2. The filter has visible buildup of sludge and metallic debris.
 3. The filter is installed at a slight angle in the housing.
 4. The filter surface shows minor dust accumulation.

Question ID : 441009192818
Option 1 ID : 441009759894
Option 2 ID : 441009759895
Option 3 ID : 441009759896
Option 4 ID : 441009759893
Status : Answered
Chosen Option : 4

Q.28 According to IEE regulations, what is the primary purpose of earthing?

- Ans 1. Provide a reference voltage for phase conductors
 2. Eliminate power surges
 3. Control the load balance
 4. Ensure safety in the event of a fault

Question ID : 441009284684
Option 1 ID : 4410091105791
Option 2 ID : 4410091105790
Option 3 ID : 4410091105792
Option 4 ID : 4410091105793
Status : Answered
Chosen Option : 3

Q.29 The winding engine's drum is used to:

- Ans 1. act as a counterweight during hoisting
 2. store the rope for hoisting materials
 3. regulate the speed of the hoist cage
 4. provide hydraulic pressure for lifting the cage

Question ID : 441009180560
Option 1 ID : 441009713559
Option 2 ID : 441009713557
Option 3 ID : 441009713558
Option 4 ID : 441009713556
Status : Answered
Chosen Option : 3

Q.30 What is the most commonly used method to measure the resistance of a grounding electrode?

- Ans 1. Fall-of-potential method
 2. Clamp-on method
 3. Insulation resistance method
 4. Two-point method

Question ID : 441009284689
Option 1 ID : 4410091105812
Option 2 ID : 4410091105811
Option 3 ID : 4410091105813
Option 4 ID : 4410091105810
Status : Answered
Chosen Option : 3

Q.31 What is the focus of Regulation 184 as per the Coal Mines Regulations, 2017?

- Ans 1. Health and safety training for mine workers
 2. Underground storage of explosives
 3. Environmental conservation measures
 4. Mine closure procedures

Question ID : 441009181260
Option 1 ID : 441009716545
Option 2 ID : 441009716546
Option 3 ID : 441009716547
Option 4 ID : 441009716548
Status : Answered
Chosen Option : 4

Q.32 Which of the following types of pumps is most commonly used for dewatering in underground mining operations?

- Ans 1. Diaphragm pump
 2. Centrifugal pump
 3. Gear pump
 4. Piston pump

Question ID : 441009180798
Option 1 ID : 441009714513
Option 2 ID : 441009714512
Option 3 ID : 441009714511
Option 4 ID : 441009714514
Status : Answered
Chosen Option : 2

Q.33 Which of the following best describes how an Earth Leakage Circuit Breaker (ELCB) works?

- Ans**
- 1. It trips only during overload conditions.
 - 2. It measures the temperature of the earth pit and trips if too high.
 - 3. It detects leakage current to earth and trips the circuit if the leakage exceeds a preset value.
 - 4. It detects excess current flowing through the phase wire and disconnects the circuit.

Question ID : 441009181655
 Option 1 ID : 441009718126
 Option 2 ID : 441009718124
 Option 3 ID : 441009718125
 Option 4 ID : 441009718123
 Status : Answered
 Chosen Option : 4

Q.34 How does maintaining correct tyre pressure contribute to energy conservation of vehicle?

- Ans**
- 1. By increasing engine temperature
 - 2. By enhancing airflow and fuel combustion efficiency
 - 3. By filtering noise
 - 4. By preventing oil leaks

Question ID : 441009284762
 Option 1 ID : 4410091106114
 Option 2 ID : 4410091106115
 Option 3 ID : 4410091106116
 Option 4 ID : 4410091106117
 Status : Answered
 Chosen Option : 4

Q.35 Why is it important to maintain a low earth resistance in an earthing system?

- Ans**
- 1. To prevent voltage fluctuations
 - 2. To improve the power factor of the system
 - 3. To ensure effective dissipation of fault current to the ground
 - 4. To increase the current-carrying capacity of wires

Question ID : 441009181721
 Option 1 ID : 441009718391
 Option 2 ID : 441009718394
 Option 3 ID : 441009718392
 Option 4 ID : 441009718393
 Status : Answered
 Chosen Option : 1

Q.36 In pipe fittings, coupling joints are used to:

- Ans**
- 1. close the end of a pipe
 - 2. join same diameter pipes
 - 3. reduce the pipe diameter
 - 4. join pipes of different materials

Question ID : 441009185497
 Option 1 ID : 441009733311
 Option 2 ID : 441009733310
 Option 3 ID : 441009733308
 Option 4 ID : 441009733309
 Status : Answered
 Chosen Option : 4

Q.37 What is a way mechanical through which seals contribute to energy conservation in systems?

- Ans
- 1. By increasing pump speed
 - 2. By lowering the coolant temperature
 - 3. By reducing friction and leakage losses
 - 4. By eliminating the need for lubrication

Question ID : 441009186977
Option 1 ID : 441009738760
Option 2 ID : 441009738763
Option 3 ID : 441009738762
Option 4 ID : 441009738761
Status : Answered
Chosen Option : 3

Q.38 What is the purpose of placing potential and current electrodes in a three-point earth resistance test?

- Ans
- 1. To simulate a fault condition
 - 2. To accurately measure earth resistance
 - 3. To calibrate the instrument
 - 4. To determine moisture content of the soil

Question ID : 441009284692
Option 1 ID : 4410091105830
Option 2 ID : 4410091105832
Option 3 ID : 4410091105831
Option 4 ID : 4410091105833
Status : Answered
Chosen Option : 4

Q.39 What does excessive noise in a running motor usually indicate?

- Ans
- 1. Stable operation
 - 2. Bearing wear or misalignment
 - 3. Proper lubrication
 - 4. Correct alignment

Question ID : 441009284697
Option 1 ID : 4410091105853
Option 2 ID : 4410091105850
Option 3 ID : 4410091105852
Option 4 ID : 4410091105851
Status : Answered
Chosen Option : 2

Q.40 SF6 gas in a circuit breaker helps in which of the following options?

- Ans
- 1. Reducing the overall size of the equipment
 - 2. Extinguishing the electric arc
 - 3. Increasing the power factor
 - 4. Providing a stable voltage level

Question ID : 441009284726
Option 1 ID : 4410091105966
Option 2 ID : 4410091105967
Option 3 ID : 4410091105968
Option 4 ID : 4410091105969
Status : Answered
Chosen Option : 2

Q.41 Which of the following circuit breakers is suitable for low-voltage and high-current applications?

- Ans 1. VCB
 2. OCB
 3. MCCB
 4. Isolator

Question ID : 441009191827
Option 1 ID : 441009755969
Option 2 ID : 441009755970
Option 3 ID : 441009755968
Option 4 ID : 441009755971
Status : Answered
Chosen Option : 3

Q.42 Why is it necessary to keep the victim lying down and still after an electric shock?

- Ans 1. To allow time for the heart to stop
 2. So they can be given medicine
 3. To make them feel sleepy
 4. To prevent further injury and monitor shock symptoms

Question ID : 441009284749
Option 1 ID : 4410091106069
Option 2 ID : 4410091106068
Option 3 ID : 4410091106066
Option 4 ID : 4410091106067
Status : Answered
Chosen Option : 4

Q.43 Which of the following could be possible causes of excessive vibrations in a gearbox system?

1. Insufficient foundation rigidity
2. Loose foundation bolting
3. Dynamic instability (critical speed)
4. Properly balanced rotating parts

- Ans 1. Only 1, 3, and 4
 2. Only 1, 2, and 4
 3. Only 1, 2, and 3
 4. Only 2, 3, and 4

Question ID : 441009183994
Option 1 ID : 441009727370
Option 2 ID : 441009727368
Option 3 ID : 441009727367
Option 4 ID : 441009727369
Status : Answered
Chosen Option : 1

Q.44 What is the ideal rate of artificial respiration (Holger-Nielsen method) in adults?

- Ans 1. 20 times per minute
 2. 10 times per minute
 3. 12–16 times per minute
 4. 6 times per minute

Question ID : 441009185371
Option 1 ID : 441009732807
Option 2 ID : 441009732804
Option 3 ID : 441009732805
Option 4 ID : 441009732806
Status : Answered
Chosen Option : 4

Q.45 Which of the following is NOT a function of the IE rules?

- Ans 1. Ensuring proper earthing
 2. Laying down wiring colour codes
 3. Regulating tariffs of electricity
 4. Defining safe clearances for conductors

Question ID : 441009180292
Option 1 ID : 441009712488
Option 2 ID : 441009712486
Option 3 ID : 441009712487
Option 4 ID : 441009712489
Status : Answered
Chosen Option : 1

Q.46 What is the primary function of computers often used in an electrical substation?

- Ans 1. Power theft
 2. System monitoring and control
 3. Manual switching only
 4. Billing only

Question ID : 441009284791
Option 1 ID : 4410091106238
Option 2 ID : 4410091106239
Option 3 ID : 4410091106240
Option 4 ID : 4410091106241
Status : Answered
Chosen Option : 2

Q.47 What does a bold continuous line typically represent in an underground mine electrical layout?

- Ans 1. Air duct
 2. Water pipeline
 3. Drainage line
 4. Power cable

Question ID : 441009284787
Option 1 ID : 4410091106223
Option 2 ID : 4410091106225
Option 3 ID : 4410091106222
Option 4 ID : 4410091106224
Status : Answered
Chosen Option : 3

Q.48 Which of the following applications is most likely to use an underground cable rated for 33 kV?

- Ans 1. Connection from a distribution substation to an industrial area
2. Street lighting circuits in residential colonies
3. Wiring inside a household
4. Charging mobile phones

Question ID : 441009181548
Option 1 ID : 441009717696
Option 2 ID : 441009717698
Option 3 ID : 441009717695
Option 4 ID : 441009717697
Status : Answered
Chosen Option : 1

Q.49 Under Regulation 182 of the Coal Mines Regulations, 2017, what precautions must be taken in the safety lamp room?

- Ans 1. Use of only imported machinery
2. Installation of backup power systems
3. Only the authorised person shall enter the safety lamp room.
4. Only compliance with national machinery standards

Question ID : 441009181251
Option 1 ID : 441009716502
Option 2 ID : 441009716503
Option 3 ID : 441009716501
Option 4 ID : 441009716504
Status : Answered
Chosen Option : 3

Q.50 What is the main objective of the Indian Electricity Rules?

- Ans 1. Monitor power cuts
2. Promote renewable energy
3. Increase tariff
4. Ensure electrical safety and reliability

Question ID : 441009180001
Option 1 ID : 441009711325
Option 2 ID : 441009711322
Option 3 ID : 441009711323
Option 4 ID : 441009711324
Status : Answered
Chosen Option : 4

Q.51 A light source of 200 candela emits light over a solid angle of 2 steradians. What is the total luminous flux?

- Ans 1. 100 lumens
2. 200 lumens
3. 400 lumens
4. 600 lumens

Question ID : 441009284744
Option 1 ID : 4410091106046
Option 2 ID : 4410091106047
Option 3 ID : 4410091106048
Option 4 ID : 4410091106049
Status : Answered
Chosen Option : 3

Q.52 Which component in coal handling is used for unloading coal from wagons?

- Ans 1. Wagon tippler
 2. Paddle feeder
 3. Apron feeder
 4. Side arm charger

Question ID : 441009181140
Option 1 ID : 441009715975
Option 2 ID : 441009715974
Option 3 ID : 441009715973
Option 4 ID : 441009715976
Status : Answered
Chosen Option : 4

Q.53 A 60 W lamp has a luminous efficiency of 20 lm/W. What is the total luminous flux emitted by the lamp?

- Ans 1. 3 lm
 2. 200 lm
 3. 600 lm
 4. 1200 lm

Question ID : 441009181929
Option 1 ID : 441009719219
Option 2 ID : 441009719220
Option 3 ID : 441009719221
Option 4 ID : 441009719222
Status : Answered
Chosen Option : 3

Q.54 In a 3-phase induction motor, when the rotor frequency becomes equal to the stator frequency, what happens to the motor?

- Ans 1. The motor will not operate and will remain at standstill.
 2. The motor will operate in regenerative braking mode.
 3. The motor will operate normally.
 4. The motor will operate as an induction generator.

Question ID : 441009191592
Option 1 ID : 441009755139
Option 2 ID : 441009755140
Option 3 ID : 441009755137
Option 4 ID : 441009755138
Status : Answered
Chosen Option : 4

Q.55 What is the term for a shearer with only one ranging drum?

- Ans 1. Single-ended ranging drum (SERD) shearer
 2. Hydraulic shearer
 3. Fixed-drum shearer
 4. Double-ended ranging drum (DERD) shearer

Question ID : 441009186290
Option 1 ID : 441009736371
Option 2 ID : 441009736373
Option 3 ID : 441009736372
Option 4 ID : 441009736370
Status : Answered
Chosen Option : 4

Q.56 Which factor is critical when selecting a ventilation fan for a mining operation?

- Ans 1. Noise level of the fan
 2. Colour of the fan
 3. Brand of the fan
 4. Required airflow volume and pressure

Question ID : 441009181051
Option 1 ID : 441009715562
Option 2 ID : 441009715561
Option 3 ID : 441009715564
Option 4 ID : 441009715563
Status : Answered
Chosen Option : 4

Q.57 Which of the following methods is NOT used for controlling the speed of a three-phase induction motor?

- Ans 1. Brush shifting
 2. Frequency control
 3. Voltage control
 4. Rotor resistance control

Question ID : 441009284693
Option 1 ID : 4410091105834
Option 2 ID : 4410091105837
Option 3 ID : 4410091105836
Option 4 ID : 4410091105835
Status : Answered
Chosen Option : 1

Q.58 Earthing of overhead lines helps in protecting which of the following during a lightning strike?

- Ans 1. Only the conductor
 2. Only the transmission tower
 3. Both conductor and tower
 4. Only the insulators

Question ID : 441009191741
Option 1 ID : 441009755644
Option 2 ID : 441009755645
Option 3 ID : 441009755646
Option 4 ID : 441009755647
Status : Answered
Chosen Option : 3

Q.59 What is the most frequently employed method for artificial respiration in mines?

- Ans 1. Holger-Nielsen method
 2. Schafer's method
 3. Mouth-to-mouth
 4. Chest compression only

Question ID : 441009185322
Option 1 ID : 441009732613
Option 2 ID : 441009732614
Option 3 ID : 441009732612
Option 4 ID : 441009732615
Status : Answered
Chosen Option : 2

Q.60 Why are graphite electrodes preferred in carbon arc welding?

- Ans 1. They have longer life and lower electrical resistance.
2. They produce a higher flame temperature than oxygen.
3. They are coated with flux for better shielding.
4. They are cheaper than carbon and melt easily.

Question ID : 441009176226
Option 1 ID : 441009696854
Option 2 ID : 441009696853
Option 3 ID : 441009696855
Option 4 ID : 441009696852
Status : Answered
Chosen Option : 1

Q.61 Which among the following is a benefit of selecting the right size motor for an application?

- Ans 1. Optimal energy use and performance
2. Increased torque beyond required
3. Minimised installation cost
4. Reduced equipment weight

Question ID : 441009284759
Option 1 ID : 4410091106105
Option 2 ID : 4410091106102
Option 3 ID : 4410091106104
Option 4 ID : 4410091106103
Status : Answered
Chosen Option : 4

Q.62 What is the role of a slurry pump in the processing plant of a mining operation?

- Ans 1. To pump chemicals used in mineral extraction
2. To circulate cooling water in machinery
3. To transport tailings (waste materials) to disposal sites
4. To transfer clean water from the surface to underground

Question ID : 441009180947
Option 1 ID : 441009715127
Option 2 ID : 441009715128
Option 3 ID : 441009715125
Option 4 ID : 441009715126
Status : Answered
Chosen Option : 1

Q.63 Which of the following is used for programming and simulating electrical circuits on a computer?

- Ans 1. AutoCAD
2. MS Word
3. Adobe Photoshop
4. MATLAB

Question ID : 441009284789
Option 1 ID : 4410091106231
Option 2 ID : 4410091106230
Option 3 ID : 4410091106233
Option 4 ID : 4410091106232
Status : Answered
Chosen Option : 2

Q.64 The Indian Electricity Rules were first framed in which year?

- Ans 1. 1950
 2. 1947
 3. 1956
 4. 1937

Question ID : 441009179928
Option 1 ID : 441009711041
Option 2 ID : 441009711040
Option 3 ID : 441009711039
Option 4 ID : 441009711042
Status : Answered
Chosen Option : 3

Q.65 What is the correct sequence of steps in a coal handling system?

- Ans 1. Furnace firing → Preparation → Coal delivery → In-plant handling
 2. Preparation → Coal delivery → Furnace firing → In-plant handling
 3. Coal delivery → Furnace firing → Preparation → In-plant handling
 4. Coal delivery → Preparation → In-plant handling → Furnace firing

Question ID : 441009181114
Option 1 ID : 441009715852
Option 2 ID : 441009715850
Option 3 ID : 441009715849
Option 4 ID : 441009715851
Status : Answered
Chosen Option : 3

Q.66 The electric charge of 5 coulombs passes through a conductor in 2 seconds. What is the current?

- Ans 1. 2.5 A
 2. 1 A
 3. 10 A
 4. 7.5 A

Question ID : 441009284774
Option 1 ID : 4410091106171
Option 2 ID : 4410091106173
Option 3 ID : 4410091106170
Option 4 ID : 4410091106172
Status : Answered
Chosen Option : 1

Q.67 Which type of lamp is most commonly used for street lighting?

- Ans 1. Incandescent lamp
 2. Fluorescent lamp
 3. Tungsten halogen lamp
 4. High-pressure sodium vapour lamp

Question ID : 441009284747
Option 1 ID : 4410091106058
Option 2 ID : 4410091106059
Option 3 ID : 4410091106061
Option 4 ID : 4410091106060
Status : Answered
Chosen Option : 1

Q.68 In predictive maintenance of ventilation fans, which technology is commonly used to detect early signs of bearing failure?

- Ans
- 1. Acoustic emission monitoring
 - 2. Infrared thermography
 - 3. Ultrasonic testing
 - 4. Vibration analysis

Question ID : 441009181078
Option 1 ID : 441009715692
Option 2 ID : 441009715689
Option 3 ID : 441009715690
Option 4 ID : 441009715691
Status : Answered
Chosen Option : 4

Q.69 How is the efficiency of a transformer defined?

- Ans
- 1. $\frac{\text{Input Power}}{\text{Output Power}} \times 100$
 - 2. $\frac{\text{Input Voltage}}{\text{Output Voltage}} \times 100$
 - 3. $\frac{\text{Output Voltage}}{\text{Input Voltage}} \times 100$
 - 4. $\frac{\text{Output Power}}{\text{Input Power}} \times 100$

Question ID : 441009284703
Option 1 ID : 4410091105875
Option 2 ID : 4410091105877
Option 3 ID : 4410091105876
Option 4 ID : 4410091105874
Status : Answered
Chosen Option : 1

Q.70 Earthing helps in the protection of which of the following during fault conditions?

- Ans
- 1. Transmission lines
 - 2. Air conditioning units
 - 3. Only motors
 - 4. Human life and electrical equipment

Question ID : 441009284687
Option 1 ID : 4410091105804
Option 2 ID : 4410091105805
Option 3 ID : 4410091105803
Option 4 ID : 4410091105802
Status : Answered
Chosen Option : 4

Q.71 Why is higher voltage supply recommended nearer to the coal face in mining operations?

- Ans
- 1. To increase coal production
 - 2. To avoid equipment failures
 - 3. To improve lighting only
 - 4. To reduce energy losses in transmission

Question ID : 441009284758
Option 1 ID : 4410091106098
Option 2 ID : 4410091106100
Option 3 ID : 4410091106099
Option 4 ID : 4410091106101
Status : Answered
Chosen Option : 1

Q.72 Which of the following light sources is considered the most energy efficient for use in underground mines?

- Ans
- 1. Light Emitting Diode
 - 2. Fluorescent lamps
 - 3. Mercury vapour lamps
 - 4. Tungsten filament lamps

Question ID : 441009186327
Option 1 ID : 441009736521
Option 2 ID : 441009736519
Option 3 ID : 441009736520
Option 4 ID : 441009736518
Status : Answered
Chosen Option : 1

Q.73 The power factor can be improved by compensating the inductive reactance with _____.

- Ans
- 1. an inductive load
 - 2. a series inductor
 - 3. a resistive load
 - 4. a capacitor bank

Question ID : 441009284718
Option 1 ID : 4410091105930
Option 2 ID : 4410091105933
Option 3 ID : 4410091105932
Option 4 ID : 4410091105931
Status : Answered
Chosen Option : 4

Q.74 Lightning arresters protect equipment mainly from which of the following?

- Ans
- 1. Low voltage
 - 2. Overload current
 - 3. Frequency variation
 - 4. Surge voltage due to lightning

Question ID : 441009284709
Option 1 ID : 4410091105895
Option 2 ID : 4410091105894
Option 3 ID : 4410091105897
Option 4 ID : 4410091105896
Status : Answered
Chosen Option : 4

Q.75 Which of the following is a sign of improper hose routing?

- Ans 1. Smooth, gradual curves in the hose
 2. Consistent fluid flow with no pressure drops
 3. Visible kinks or tight bends restricting movement
 4. Properly secured clamps and fittings

Question ID : 441009192680
Option 1 ID : 441009759337
Option 2 ID : 441009759339
Option 3 ID : 441009759338
Option 4 ID : 441009759340
Status : Answered
Chosen Option : 1

Q.76 What is the main purpose of a man riding system in an underground mine?

- Ans 1. Carry coal to the surface
 2. Provide ventilation
 3. Transport workers safely and quickly to the working face
 4. Transport machinery underground

Question ID : 441009180337
Option 1 ID : 441009712658
Option 2 ID : 441009712661
Option 3 ID : 441009712660
Option 4 ID : 441009712659
Status : Answered
Chosen Option : 3

Q.77 What is the primary purpose of maintaining a surface plan in coal mines under the Coal Mines Regulations, 2017?

- Ans 1. To show underground workings
 2. To display mine boundaries and surface features
 3. To track employee attendance
 4. To record coal reserves

Question ID : 441009181159
Option 1 ID : 441009716081
Option 2 ID : 441009716082
Option 3 ID : 441009716084
Option 4 ID : 441009716083
Status : Answered
Chosen Option : 2

Q.78 In which type of transformer is a Buchholz relay exclusively used?

- Ans 1. Oil-immersed transformers
 2. Air-cooled transformers
 3. Auto-transformers
 4. Dry type transformers

Question ID : 441009284704
Option 1 ID : 4410091105880
Option 2 ID : 4410091105879
Option 3 ID : 4410091105881
Option 4 ID : 4410091105878
Status : Answered
Chosen Option : 1

Q.79 What principle does a moving-coil ammeter operate on?

- Ans 1. Magnetic effect of current
 2. Heating effect of current
 3. Optical effect
 4. Chemical effect of current

Question ID : 441009284777
Option 1 ID : 4410091106178
Option 2 ID : 4410091106179
Option 3 ID : 4410091106181
Option 4 ID : 4410091106180
Status : Answered
Chosen Option : 1

Q.80 Maintaining correct tyre pressure contributes to energy conservation by _____.

- Ans 1. increasing tyre wear
 2. reducing rolling resistance
 3. cooling the engine faster
 4. making the vehicle heavier

Question ID : 441009284766
Option 1 ID : 4410091106138
Option 2 ID : 4410091106139
Option 3 ID : 4410091106141
Option 4 ID : 4410091106140
Status : Answered
Chosen Option : 2

Q.81 What component separates the high voltage and low voltage windings in a transformer?

- Ans 1. Insulating material
 2. Air gap
 3. Iron core
 4. Steel casing

Question ID : 441009284699
Option 1 ID : 4410091105861
Option 2 ID : 4410091105859
Option 3 ID : 4410091105858
Option 4 ID : 4410091105860
Status : Answered
Chosen Option : 1

Q.82 What type of sand is recommended as bedding material for underground cables?

- Ans 1. Coarse river sand
 2. Gravel mix
 3. Wet clay
 4. Fine sieved sand free from stones

Question ID : 441009284668
Option 1 ID : 4410091105722
Option 2 ID : 4410091105725
Option 3 ID : 4410091105724
Option 4 ID : 4410091105723
Status : Answered
Chosen Option : 2

Q.83 Which equipment is used to reduce the voltage before supplying power to underground mines?

- Ans 1. Inverter
 2. Circuit breaker
 3. Load limiter
 4. Step-down transformer

Question ID : 441009284714
 Option 1 ID : 4410091105914
 Option 2 ID : 4410091105916
 Option 3 ID : 4410091105917
 Option 4 ID : 4410091105915
 Status : Not Answered
 Chosen Option : --

Q.84 What is the role of an overman appointed under Regulation 33 in a coal mine?

- Ans 1. To handle employee grievances
 2. To conduct environmental assessments
 3. To oversee safety operations and hold charge of different districts of the mine
 4. To manage mine finances

Question ID : 441009181152
 Option 1 ID : 441009716040
 Option 2 ID : 441009716039
 Option 3 ID : 441009716038
 Option 4 ID : 441009716037
 Status : Not Answered
 Chosen Option : --

Q.85 What is the first step in administering first aid to a mine worker exposed to toxic gas?

- Ans 1. Rub ointment on the chest
 2. Give water
 3. Move the victim to fresh air
 4. Perform CPR immediately

Question ID : 441009284753
 Option 1 ID : 4410091106081
 Option 2 ID : 4410091106078
 Option 3 ID : 4410091106080
 Option 4 ID : 4410091106079
 Status : Not Answered
 Chosen Option : --

Q.86 In case of a mine fire, what is the first and foremost action that should be taken?

- Ans 1. Evacuate personnel and raise an alarm
 2. Increase ventilation immediately
 3. Call the press
 4. Inform the police

Question ID : 441009179897
 Option 1 ID : 441009710924
 Option 2 ID : 441009710925
 Option 3 ID : 441009710922
 Option 4 ID : 441009710923
 Status : Not Answered
 Chosen Option : --

Q.87 Which of the following statements about Time-Based Maintenance (TBM) is/are true?

- I. It is performed at regular, predetermined intervals regardless of equipment condition.
- II. It includes inspections, lubrication, servicing, and replacement of parts.
- III. It starts only after the equipment has failed.

- Ans
- 1. Only I
 - 2. I and III
 - 3. Only I and II
 - 4. I, II, and III

Question ID : 441009176588
Option 1 ID : 441009698257
Option 2 ID : 441009698259
Option 3 ID : 441009698258
Option 4 ID : 441009698260
Status : Not Answered
Chosen Option : --

Q.88 Which of the following is a mandatory safety precaution while handling underground power cables during maintenance?

- Ans
- 1. Identifying cable route using cable locator before excavation
 - 2. Avoiding personal protective equipment to maintain flexibility
 - 3. Performing work at night to avoid public disturbance
 - 4. Using metallic tools for faster work

Question ID : 441009181573
Option 1 ID : 441009717797
Option 2 ID : 441009717796
Option 3 ID : 441009717798
Option 4 ID : 441009717795
Status : Not Answered
Chosen Option : --

Q.89 Which of the following is the primary purpose of a winding engine in a mine?

- Ans
- 1. To raise and lower materials and personnel in the mine shaft
 - 2. To crush minerals in the mine
 - 3. To ventilate the mine
 - 4. To pump water from the mine

Question ID : 441009180486
Option 1 ID : 441009713259
Option 2 ID : 441009713261
Option 3 ID : 441009713260
Option 4 ID : 441009713258
Status : Not Answered
Chosen Option : --

Q.90 What is the benefit of performing predictive maintenance on engines?

- Ans 1. It is less effective than preventive maintenance.
2. It helps in identifying potential issues before they cause downtime.
3. It reduces the frequency of maintenance.
4. It increases the cost of maintenance.

Question ID : 441009187136
Option 1 ID : 441009739399
Option 2 ID : 441009739398
Option 3 ID : 441009739397
Option 4 ID : 441009739396
Status : Not Answered
Chosen Option : --

Q.91 Transmission filter replacements are classified as what type of maintenance?

- Ans 1. Cosmetic maintenance
2. Preventative maintenance
3. Corrective maintenance
4. Emergency maintenance

Question ID : 441009192835
Option 1 ID : 441009759972
Option 2 ID : 441009759971
Option 3 ID : 441009759969
Option 4 ID : 441009759970
Status : Not Answered
Chosen Option : --

Q.92 Which factor is most important while selecting an underground cable for a specific application?

- Ans 1. Cable colour and shape
2. Voltage rating and current-carrying capacity
3. Popularity of the manufacturer
4. Number of wires in the cable

Question ID : 441009181618
Option 1 ID : 441009717975
Option 2 ID : 441009717976
Option 3 ID : 441009717977
Option 4 ID : 441009717978
Status : Not Answered
Chosen Option : --

Q.93 What function does a short-circuit protection system serve in an electrical circuit?

- Ans 1. Interrupt the current when it exceeds predefined value
2. Increase power factor
3. Limit the voltage to a safe value
4. Maintain constant voltage

Question ID : 441009284730
Option 1 ID : 4410091105983
Option 2 ID : 4410091105984
Option 3 ID : 4410091105982
Option 4 ID : 4410091105985
Status : Not Answered
Chosen Option : --

Q.94 For applications sensitive to frictional torque and operating under light loads, which type of lubricant is preferred?

- Ans 1. High viscosity
 2. Coolant
 3. Low viscosity
 4. Adhesive

Question ID : 441009184151
Option 1 ID : 441009727979
Option 2 ID : 441009727982
Option 3 ID : 441009727980
Option 4 ID : 441009727981
Status : Not Answered
Chosen Option : --

Q.95 Which of the following best describes the energy-efficient approach when replacing O-rings in high-pressure systems?

- Ans 1. Select material based on pressure/temp/fluid
 2. Replace only on major leak
 3. Apply grease to seal
 4. Use larger O-rings

Question ID : 441009186884
Option 1 ID : 441009738382
Option 2 ID : 441009738380
Option 3 ID : 441009738383
Option 4 ID : 441009738381
Status : Not Answered
Chosen Option : --

Q.96 The direction of rotation of a three-phase induction motor can be reversed by which of the following?

- Ans 1. Adding resistance to the stator
 2. Interchanging any two supply phases
 3. Changing frequency of supply
 4. Increasing the supply voltage

Question ID : 441009284695
Option 1 ID : 4410091105844
Option 2 ID : 4410091105843
Option 3 ID : 4410091105845
Option 4 ID : 4410091105842
Status : Not Answered
Chosen Option : --

Q.97 In a generator, what happens when the field switch is opened?

- Ans 1. The generator's output voltage increases.
 2. The generator stops producing power.
 3. The generator continues to operate normally.
 4. The generator experiences a short circuit.

Question ID : 441009284728
Option 1 ID : 4410091105976
Option 2 ID : 4410091105975
Option 3 ID : 4410091105974
Option 4 ID : 4410091105977
Status : Not Answered
Chosen Option : --

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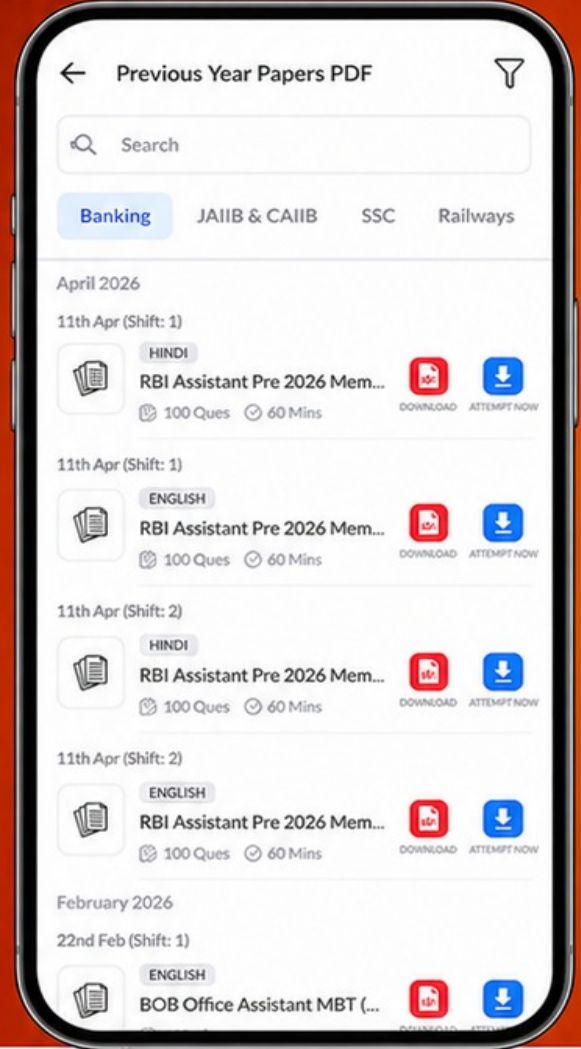
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Q.98 What is the correct description of a fuse?

- Ans 1. Type of electrical switch
2. Protective device that melts when current exceeds a certain value
3. Conductive material that has high melting point
4. Non-conductive material that acts as an insulator

Question ID : 441009284721
Option 1 ID : 4410091105953
Option 2 ID : 4410091105950
Option 3 ID : 4410091105951
Option 4 ID : 4410091105952
Status : Not Answered
Chosen Option : --

Q.99 Why is arresting leakage in hydraulic hoses important?

- Ans 1. It prevents water leakage.
2. It avoids unnecessary diesel loss and energy wastage.
3. It increases hydraulic pressure.
4. It reduces noise levels.

Question ID : 441009284761
Option 1 ID : 4410091106111
Option 2 ID : 4410091106112
Option 3 ID : 4410091106110
Option 4 ID : 4410091106113
Status : Not Answered
Chosen Option : --

Q.10 On which parameter do copper losses in a transformer depend?

0

- Ans 1. Supply voltage
2. Load current
3. Core material
4. Supply frequency

Question ID : 441009284700
Option 1 ID : 4410091105862
Option 2 ID : 4410091105864
Option 3 ID : 4410091105865
Option 4 ID : 4410091105863
Status : Not Answered
Chosen Option : --