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CIL MT Previous
Question Papers
Electrical & Mechanical
29th November 2025

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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?

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

Chosen Option: 4

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

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

Chosen Option: 1

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 ₹)?

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

Chosen Option: 2



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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.

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

Chosen Option: 4

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

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

Chosen Option: 4

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?

1. ₹920
2. ₹1,100
3. ₹900
4. ₹800

Chosen Option: 1

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?

1. ₹9,045

2. ₹10,425
3. ₹9,250
4. ₹9,000

Chosen Option: 4

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 ₹).

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

Chosen Option: 2

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

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

Q.9

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

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



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1. 40

2. 41

3. 38

4. 43

Chosen Option: 1

Section : Organizational Profile, Finance and Strategic Initiatives

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

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

Chosen Option: 4

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

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

Chosen Option: 1

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

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.

Chosen Option: 3

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

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

Chosen Option: 3

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

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

Chosen Option: 3

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

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

Chosen Option: 3



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

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.

Chosen Option: 3

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

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

Chosen Option: 4

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?

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

Chosen Option: 4

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



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3. cost of labour per tonne
4. productivity of coal per employee per shift

Chosen Option: 1

Section : Product Profile

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

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

Chosen Option: 2

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

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

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?

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

Chosen Option: 2



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

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

Chosen Option: 2

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

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

Chosen Option: 3

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

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

Chosen Option: 1

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

1. Parallel
2. Perpendicular
3. Diagonal



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4. Circular

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?

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

Chosen Option: 2

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

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

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?

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

Chosen Option: 2

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:



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

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:

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

Chosen Option: 3

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

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

Chosen Option: 4

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

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



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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?

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

Chosen Option: 1

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

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

Chosen Option: 4

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

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

Chosen Option: 1

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

1. Completion of a certain period of service
2. Approval from the management



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3. Good performance appraisal
4. Availability of leave credits

Chosen Option: 1

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

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

Chosen Option: 1

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

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

Chosen Option: 4

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.

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

Chosen Option: 1



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

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

Chosen Option: 1

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

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

Chosen Option: 3

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

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

Chosen Option: 2

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

1. To impose penalties
2. To initiate disciplinary proceedings
3. To manage coal production



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4. To hear appeals against disciplinary actions

Chosen Option: 4

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?

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.

Chosen Option: 3

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

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

Chosen Option: 3

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

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

Chosen Option: 4

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



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

Chosen Option: 4

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

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

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?

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

Chosen Option: 3

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

1. Environment protection and promotion
2. Focus on sustainable development
3. Employee healthcare bonuses



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4. Shareholder welfare

Chosen Option: 2

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

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

Chosen Option: 4

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

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

Chosen Option: 3

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

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

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



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communicated to him, prefer an appeal to an appellate officer who shall be a person nominated in this behalf by the appropriate government.

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

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?

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

Chosen Option: 2

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

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

Chosen Option: 1

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

1. CIL Board
2. Shareholders
3. In General meeting



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4. President of India

Chosen Option: 4

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?

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

Chosen Option: 3

Section : General Awareness

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

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

Chosen Option: 2

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

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

Chosen Option: 1



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

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

Chosen Option: 4

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

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

Chosen Option: 1

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

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

Chosen Option: 4

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

1. Karl Marx
2. John Maynard Keynes
3. Mahbub ul Haq



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4. Amartya Sen

Chosen Option: 3

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

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

Chosen Option: 3

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

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

Chosen Option: 2

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

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

Chosen Option : 2

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

1. India had a trade surplus.
2. India's trade was largely controlled by the British.



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3. India was a major exporter of manufactured goods.

4. India had a well-diversified trade market.

Chosen Option : 2

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

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

Chosen Option : 3

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

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

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)?

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

Chosen Option : 2

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



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Ans 1. Pakistan

2. Iran

3. Syria

4. Yemen

Chosen Option : 3

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

1. Bhopal

2. Raipur

3. Bhubaneswar

4. New Delhi

Chosen Option : 4

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

1. Swapnil Suresh Kusale

2. Sucha Singh

3. Abhay Singh

4. Deepali Deshpande

Chosen Option : 1

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

1. Blue Revolution

2. Green Revolution

3. Pink Revolution

4. White Revolution



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Chosen Option : 4

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

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

Chosen Option : 3

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

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

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)?

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

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.



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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

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

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.

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

Q.3 Select the most appropriate option to fill in the blank. The conference participants were _____ engaged in the discussions and workshops.

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

Chosen Option : 3



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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

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

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.

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

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.

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

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.

1. a
2. an



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3. the

4. No article required

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.

Q.8 What is the summary of the passage?

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.

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



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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.

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

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.

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.

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

1. Descriptive and nostalgic
2. Emotional and persuasive



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3. Logical and instructive
4. Humorous and sarcastic

Chosen Option : 3

Section : Basic Computer Skills

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

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

Chosen Option : 4

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

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

Chosen Option : 2

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

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

Chosen Option : 1



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

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

Chosen Option : 4

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

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

Chosen Option : 2

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

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

Chosen Option : 4

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

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



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4. 1-5 Mbps

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?

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

Chosen Option : 4

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

1. .pptm
2. .docx
3. .xlsx
4. .pptx

Chosen Option : 2

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

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

Chosen Option : 4

Section : Domain Knowledge Finance

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



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

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?

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

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?

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

Chosen Option : 4

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

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

Chosen Option : 2

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

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

Chosen Option : 2



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

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.

Chosen Option : 4

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

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

Chosen Option : 3

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

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

Chosen Option : 2

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

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

Chosen Option : 3



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

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

Chosen Option : 2

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

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

Chosen Option : 3

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

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

Chosen Option : 3

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

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

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?

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

Chosen Option : 2



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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.

Chosen Option : 2

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

_____.

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

Chosen Option : 1

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

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

Chosen Option : 2

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

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

Chosen Option : 2

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

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

Chosen Option : 2

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

1. It will never stop working.
2. It will automatically lubricate itself.



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3. It will increase the production speed.
4. It may work slower and reduce the line efficiency.

Chosen Option : 4

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

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

Chosen Option : 2

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

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

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

Chosen Option : 4

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

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

Chosen Option : – 3



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

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

Chosen Option : 3

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

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

Chosen Option : 1

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

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.

Chosen Option : 4

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

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

Chosen Option : 3

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

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

Chosen Option : 3



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

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

Chosen Option : 3

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

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

Chosen Option : 4

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

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

Chosen Option : 2

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

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.

Chosen Option : 4



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

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

Chosen Option : 4

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

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

Chosen Option : 1

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

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

Chosen Option : 4

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

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

Chosen Option : 3

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

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

Chosen Option : 4



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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

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

Chosen Option : 2

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

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

Chosen Option : 3

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

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

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

1. Only 1, 3, and 4



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

Chosen Option : 1

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

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

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

Chosen Option : 1

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

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

Chosen Option : 2

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

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

Chosen Option : 3

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

1. Connection from a distribution substation to an industrial area



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2. Street lighting circuits in residential colonies
3. Wiring inside a household
4. Charging mobile phones

Chosen Option : 1

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

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

Chosen Option : 3

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

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

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?

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

Chosen Option : 3

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

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

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?

1. 3 lm
2. 200 lm



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3. 600 lm
4. 1200 lm

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?

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.

Chosen Option : 4

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

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

Chosen Option : 4

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

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

Chosen Option : 4

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

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

Chosen Option : 1

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

1. Only the conductor



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

Chosen Option : 3

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

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

Chosen Option : 2

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

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.

Chosen Option : 1

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

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

Chosen Option : 4

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

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

Chosen Option : 1



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

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

Chosen Option : 2

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

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

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

Chosen Option : 3

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

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

Chosen Option : 1

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

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

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Chosen Option : 1



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

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

Chosen Option : 4

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

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. $\frac{\text{Output Power}}{\text{Input Power}} \times 100$

Chosen Option : 1

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

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

Chosen Option : 4

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

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

Chosen Option : 1



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

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

Chosen Option : 1

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

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

Chosen Option : 4

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

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

Chosen Option : 4

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

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

Chosen Option : 1

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

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

Chosen Option : 3



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

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

Chosen Option : 2

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

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

Chosen Option : 1

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

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

Chosen Option : 1

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

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

Chosen Option : 2

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

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

Chosen Option : 1



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

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

Chosen Option : 2

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

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

Chosen Option: 4

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

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

Chosen Option : – 3

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

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

Chosen Option : – 3

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

1. Evacuate personnel and raise an alarm
2. Increase ventilation immediately
3. Call the press



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4. Inform the police

Chosen Option : – 1

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

Chosen Option : –3

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

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

Chosen Option : – 1

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

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

Chosen Option : – 1

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

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.

Chosen Option : - 2



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

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

Chosen Option : 2

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

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

Chosen Option : – 2

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

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

Chosen Option : – 1

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

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

Chosen Option : – 3

Q.95 Which of the following best describes the energy-efficient approach when replacing Orings 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



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Chosen Option : – 1

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

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

Chosen Option : – 2

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

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.

Chosen Option : – 2

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


1. Type of electrical switch
2. Protective device that melts when current exceeds a certain value
3. Conductive material that has high melting point

Chosen Option : – 2

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

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

Chosen Option : – 2

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Q.100 On which parameter do copper losses in a transformer depend?

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

Chosen Option : – 2

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