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A row of yellow mining trucks, likely haul trucks, parked in a quarry or mine setting. The trucks are arranged in a line, receding into the distance. The background is a bright, hazy sky, and the ground is a light-colored, dusty surface. The overall scene is industrial and focused on heavy machinery.

COAL INDIA
MANAGEMENT TRAINEE
MINING 2017 PAPER

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कोल इण्डिया लिमिटेड
Coal India Limited
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ONLINE APPLICATION FOR MANAGEMENT TRAINEES 2016-17

Roll No:
Participant Name:
Test Center Name:
Test Date:
Test Time:

Section : General Knowledge/Awareness

Q.1 What does RAM in a computer stands for?

- Ans
- 1. Rapid Applied Memory
 - 2. Random Access Memory
 - 3. Random Application Mapping
 - 4. Rapid Action Machine

Question ID : 2391302728

Status : Answered

Chosen Option : 2

Q.2 What does IDBI in IDBI Bank stand for?

- Ans
- 1. Industrial Development Bank of India
 - 2. Investment Development Board of India
 - 3. Infrastructure and Development Board of India
 - 4. Industrial Divestment Board of India

Question ID : 2391302723

Status : Answered

Chosen Option : 1

Q.3 What type of Energy does "a batsman hitting a ball" use?

- Ans
- 1. Frictional Energy
 - 2. Kinetic Energy
 - 3. Gravitational Energy
 - 4. Potential Energy

Question ID : 2391302725

Status : Answered

Chosen Option : 2

Q.4 Who is the Chief Justice of India as of February 2017?

- Ans
- 1. Justice C. S. Karnan
 - 2. Justice H. L. Dattu
 - 3. Justice Jagdish Singh Khehar
 - 4. Justice T. S. Thakur

Question ID : 2391302737

Status : Answered

Chosen Option : 4

Q.5 Who is the Chief Executive Officer (CEO) of the Wipro Group?

- Ans
- 1. Rishad Premji
 - 2. Vishal Sikka
 - 3. Azim H. Premji
 - 4. Abidali Z. Neemuchwala

Question ID : 2391302724

Status : Answered

Chosen Option : 3

Q.6 Whom among the following stepped down as the Chairman of International Cricket Council (ICC) on 15th March 2017?

- Ans**
- 1. Zaheer Abbas
 - 2. N. Srinivasan
 - 3. Shashank Manohar
 - 4. David Richardson

Question ID : 2391302735

Status : Answered

Chosen Option : 3

Q.7 Asia's first and longest cycle highway runs between:

- Ans**
- 1. Mumbai and Pune in Maharashtra
 - 2. Hyderabad and Secunderabad in Telangana
 - 3. Etawah and Agra in Uttar Pradesh
 - 4. Bengaluru and Mysuru in Karnataka

Question ID : 2391302734

Status : Answered

Chosen Option : 1

Q.8 Who has been awarded the 2016 IAAF World Athlete of the Year Award in male category for sixth time?

- Ans**
- 1. Usain Bolt
 - 2. Andre De Grasse
 - 3. Michael Phelps
 - 4. Patrik Sjöberg

Question ID : 2391302730

Status : Answered

Chosen Option : 1

Q.9 Who is the current Speaker of Lok Sabha?

- Ans**
- 1. S. M. Krishna
 - 2. Meira Kumar
 - 3. Mohammad Hamid Ansari
 - 4. Sumitra Mahajan

Question ID : 2391302738

Status : Answered

Chosen Option : 4

Q.10 Which of the following does the 7th Schedule of the Constitution of India comprise?

- i. State List
- ii. Union List
- iii. Concurrent List

- Ans**
- 1. Only (i)
 - 2. Both (ii) and (iii)
 - 3. All (i), (ii) and (iii)
 - 4. Both (i) and (ii)

Question ID : 2391302714

Status : Answered

Chosen Option : 3

Q.11 Which film won the 70th British Academy of Film and Television Arts (BAFTA) Award in the Best Special Visual Effects category?

- Ans**
- 1. Lion
 - 2. Manchester by the Sea
 - 3. The Jungle Book
 - 4. La La Land

Question ID : 2391302733

Status : Answered

Chosen Option : 3

Q.12 Which statement about the Gobi Desert is NOT correct?

- Ans**
- 1. Gobi is a cold desert.
 - 2. Most of Gobi's rain is blocked by the Himalayas.
 - 3. It never rains in the Gobi desert.
 - 4. Gobi desert is the most expansive arid region in Asia.

Question ID : 2391302731

Status : Answered

Chosen Option : 3

Q.13 Whom did Chandragupta Maurya overthrow to take over the reins of the Magadha Empire?

- Ans
- 1. Mahapadma Nanda
 - 2. Bimbisara
 - 3. Dhana Nanda
 - 4. Ajatshatru

Question ID : 2391302717

Status : Answered

Chosen Option : 3

Q.14 Which of the following is NOT an example of Biomass Material?

- Ans
- 1. Wood
 - 2. Coal
 - 3. Animal Waste
 - 4. Garbage

Question ID : 2391302727

Status : Answered

Chosen Option : 1

Q.15 Which of the following countries first invented the idea of "Gross National Happiness" to use happiness as a measure of good governance?

- Ans
- 1. Bhutan
 - 2. Norway
 - 3. Great Britain
 - 4. Taiwan

Question ID : 2391302721

Status : Answered

Chosen Option : 1

Q.16 Mr. Reddy is running for the Vice-President's post. Which of the following qualities of Mr. Reddy make him an ineligible candidate to contest election for the post of Vice-President of India?

- Ans
- 1. Mr. Reddy has completed the age of thirty-five years.
 - 2. Mr. Reddy is qualified for election as a member of the Council of States.
 - 3. Mr. Reddy is the District Commissioner of Guntur, which is an office of profit under the Government of Andhra Pradesh.
 - 4. Mr. Reddy is a citizen of India.

Question ID : 2391302715

Status : Answered

Chosen Option : 3

Q.17 Who became the first woman to win the Jnanpith Award in 1976 for her 1965-novel Pratham Pratiruti (The First Promise)?

- Ans
- 1. Mahasweta Devi
 - 2. Ashapoorna Devi
 - 3. Amrita Pritam
 - 4. Lily Ray

Question ID : 2391302732

Status : Answered

Chosen Option : 1

Q.18 Who won the Men's Final Australian Open Tennis Championship 2017?

- Ans
- 1. Rafael Nadal
 - 2. Roger Federer
 - 3. Novak Djokovic
 - 4. Stanislas Wawrinka

Question ID : 2391302736

Status : Answered

Chosen Option : 2

Q.19 All executive action of the Government of India is taken in the name of the _____.

- Ans
- 1. Vice President of India
 - 2. President of India
 - 3. Prime Minister of India
 - 4. Speaker of Lok Sabha

Question ID : 2391302716

Status : Answered

Chosen Option : 2

Q.20

A physical balance is an example of:

- Ans 1. Lever
 2. Inclined plane
 3. Wedge
 4. Composite machine

Question ID : 2391302726
 Status : Answered
 Chosen Option : 1

Q.21 Which country is the world leader in the population of bovine animals?

- Ans 1. USA
 2. Spain
 3. India
 4. Denmark

Question ID : 2391302722
 Status : Answered
 Chosen Option : 1

Q.22 _____ has the largest coal reserves in India.

- Ans 1. Jharkhand
 2. West Bengal
 3. Chhattisgarh
 4. Odisha

Question ID : 2391302720
 Status : Answered
 Chosen Option : 1

Q.23 Who wrote the medieval-era epic poem "Padmavat"?

- Ans 1. Malik Muhammad "Jayasi"
 2. Amir Khusro
 3. Mulla Daud
 4. Abu'l-Fazl ibn Mubarak

Question ID : 2391302719
 Status : Answered
 Chosen Option : 2

Q.24 Who among the following won the Dronacharya Award in Gymnastics for the year 2016?

- Ans 1. Deepa Karmakar
 2. Bishweshwar Nandi
 3. Rajendra Pralhad Shelke
 4. Lalita Babar

Question ID : 2391302729
 Status : Answered
 Chosen Option : 2

Q.25 Which of the following Governor Generals of India earned the title, "Maker of the Modern India"?

- Ans 1. Lord Bentick
 2. Lord Mountbatten
 3. Lord Dalhousie
 4. Lord Canning

Question ID : 2391302718
 Status : Answered
 Chosen Option : 2

Section : Numerical Ability

Q.1 A can finish the work in 25 days and B in 25 days. They both work together for 5 days and then B leaves. How many days will A take to complete the remaining work?

- Ans 1. 17 days
 2. 15 days
 3. 20 days
 4. 18 days

Question ID : 2391302752
 Status : Answered
 Chosen Option : 2

Q.2 The number of terms in the sequence 20, 25, 30,, 150 is:

Question ID : 2391302762

- Ans 1. 27
 2. 23
 3. 22
 4. 26

Status : **Answered**
 Chosen Option : 1

Q.3 Pipe A can fill the tank 2 times faster than pipe B. If pipe A and B together fill the tank in 24 minutes, then pipe B alone can fill the tank in:

- Ans 1. 70 minutes
 2. 72 minutes
 3. 75 minutes
 4. 71 minutes

Question ID : **2391302753**
 Status : **Answered**
 Chosen Option : 2

Q.4 If the sum of 2 numbers is 175, their LCM is 300 and HCF is 25. Then the difference between 2 numbers is:

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

Question ID : **2391302740**
 Status : **Answered**
 Chosen Option : 3

Q.5 An army post with 1800 men has provision of food for 50 days. After 10 days, some of the men go back to the base camp due to injuries. The remaining food is now enough for the next 50 days for the remaining men. What is the number of men who went back to the base camp?

- Ans 1. 310 Men
 2. 360 Men
 3. 350 Men
 4. 250 Men

Question ID : **2391302746**
 Status : **Answered**
 Chosen Option : 2

Q.6 Mr. Vijay rows a boat with the stream in 8 km/hr and against the stream in 4 km/hr. In still water, his rate of rowing in km/hr is:

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

Question ID : **2391302759**
 Status : **Answered**
 Chosen Option : 1

Q.7 A flight has to travel between 2 cities A and B, 3000 km apart. The flight was slowed down due to bad weather. Its average speed for the trip reduced by 200 km/hr and the time of flight increased by 30 min. The duration of the flight with original speed is:

- Ans 1. 2.75 hrs
 2. 2.25 hrs
 3. 2.6 hrs
 4. 2.5 hrs

Question ID : **2391302751**
 Status : **Answered**
 Chosen Option : 4

Q.8 Due to economic surges the price of eggs suddenly reduced to 40%. This enabled a woman to buy 64 more eggs for \$ 50. Then the reduced price per dozen is:

- Ans 1. \$ 4
 2. \$ 3.75
 3. \$ 3.5
 4. \$ 3.25

Question ID : **2391302750**
 Status : **Answered**
 Chosen Option : 2

Q.9 The total number of odd factors of $2^5 \times 3^3 \times 5^2$ is:

- Ans 1. 6
 2. 10
 3. 12
 4. 15

Question ID : **2391302739**
 Status : **Answered**
 Chosen Option : 3

Q.10 The average of 7 numbers is 29. The average of first three of them is 23 and the last three of them is 42. Then the fourth number is:

- Ans 1. 8
 2. 12
 3. 9
 4. 10

Question ID : 2391302743

Status : Answered

Chosen Option : 1

Q.11 The curved surface area of a hemisphere is $8\pi \text{ cm}^2$, then its radius is:

- Ans 1. 2.5 cm
 2. 1 cm
 3. 3 cm
 4. 2 cm

Question ID : 2391302760

Status : Answered

Chosen Option : 4

Q.12 In a bio gas plant the population of yeast bacteria increases at a rate of 9% per annum, but there is an additional annual increase of 1% in population due to various other inputs in the system. The percentage increase in the yeast population after 2 yrs is:

- Ans 1. 25%
 2. 21%
 3. 20%
 4. 22%

Question ID : 2391302748

Status : Answered

Chosen Option : 2

Q.13 The number of terms in the sequence 5, 20, 80, 320,, 81920 is:

- Ans 1. 6
 2. 7
 3. 8
 4. 9

Question ID : 2391302763

Status : Answered

Chosen Option : 3

Q.14 श्री दीप 1833 रुपए को इस प्रकार से विभाजित करते हैं कि पहले भाग का 4 गुना, दूसरे भाग का तीन गुना तथा तीसरे भाग का दोगुना बराबर है, तो दूसरे भाग का मान है:

- Ans 1. ₹. 560
 2. ₹. 564
 3. ₹. 654
 4. ₹. 546

Question ID : 2391302745

Status : Answered

Chosen Option : 2

Q.15 For a positive integer n , $3^{6n} - 6^{3n}$ is divisible by:

- Ans 1. 6
 2. 513
 3. 3
 4. 500

Question ID : 2391302741

Status : Answered

Chosen Option : 3

Q.16 Ms. Shivangi invests Rs. 4000 for six months at 20% per annum compounded quarterly. The total amount she gets after 6 months is:

- Ans 1. Rs. 4411
 2. Rs. 4440
 3. Rs. 4410
 4. Rs. 4401

Question ID : 2391302749

Status : Answered

Chosen Option : 2

Q.17 If two is added to the denominator of a rational number it becomes $\frac{1}{3}$ and if 4 is added to the numerator it becomes $\frac{1}{2}$. Then the sum of the numerator and the denominator of the rational number is:

- Ans 1. -18
 2. -38
 3. 38

Question ID : 2391302744

Status : Answered

Chosen Option : 3

4. 18

Q.18 If $-5 \leq x \leq 1$ and $-1 \leq y \leq 5$, then the minimum value of $2y - 3x$ is:

- Ans 1. -5
 2. -10
 3. -9
 4. -8

Question ID : 2391302742

Status : Answered

Chosen Option : 1

Q.19 Mr. Shiva invested equal amount of money in two private firms which gives 15% simple interest per annum for 3.5 years and 5 years respectively. If the difference in their interests is Rs. 270. The amount invested by Mr. Shiva is:

- Ans 1. Rs. 1200
 2. Rs. 1500
 3. Rs. 1250
 4. Rs. 1205

Question ID : 2391302747

Status : Answered

Chosen Option : 1

Q.20 If three sides of the triangle are given as 32 cm, 34 cm and 34 cm, then the area of the triangle is:

- Ans 1. 500 cm²
 2. 480 cm²
 3. 450 cm²
 4. 475 cm²

Question ID : 2391302757

Status : Answered

Chosen Option : 2

Q.21 A train 130 meters long travelling at 36 km/hr crosses the bridge in 30 sec. Then the length of the bridge is:

- Ans 1. 175 meters
 2. 125 meters
 3. 170 meters
 4. 196 meters

Question ID : 2391302758

Status : Answered

Chosen Option : 3

Q.22 If y exceeds x by 10% then x is less than y by what percent?

- Ans 1. $9\frac{1}{12}$
 2. $9\frac{1}{11}$
 3. $9\frac{1}{14}$
 4. $9\frac{1}{13}$

Question ID : 2391302761

Status : Answered

Chosen Option : 2

Q.23 If x_1 and x_2 are the roots of the equation $x^2 + 2x - 15 = 0$ then the quadratic equation which has the roots $\frac{1}{x_1}$ and $\frac{1}{x_2}$ is:

- Ans 1. $15x^2 - 2x - 1 = 0$
 2. $15x^2 + 2x - 1 = 0$
 3. $15x^2 - 2x + 1 = 0$
 4. $-15x^2 - 2x - 1 = 0$

Question ID : 2391302756

Status : Answered

Chosen Option : 1

Q.24 Find x , given $5(\sqrt{5})^{x+5} = (\sqrt{5})^{2x+7}$:

- Ans 1. $x = -2$
 2. $x = 0$
 3. $x = -1$
 4. $x = 1$

Question ID : 2391302755

Status : Answered

Chosen Option : 2

Q.25 In a chemistry lab two beakers A and B contain 62% and 84% of spirit respectively. If two liters from A is mixed with 4 liters of B, the ratio of spirit and water in the resulting mixture is:

- Ans 1. 23 : 7
 2. 17 : 19
 3. 17 : 21
 4. 58 : 19

Question ID : 2391302754

Status : Answered

Chosen Option : 1

Section : Reasoning

Q.1 In a certain code language CARPET is written as FDUSHW. How will MOTHER be coded in that code language?

- Ans 1. REHTOM
 2. OPUIFS
 3. PRWKHU
 4. PRWHUK

Question ID : 2391302777

Status : Answered

Chosen Option : 3

Q.2 In a row of boys, Vivek stands thirteenth from the left and Ravi is thirteenth from the right. If they interchange their places, Ravi would be eighteenth from the right. How many boys are there in the row?

- Ans 1. 32
 2. 31
 3. 30
 4. 29

Question ID : 2391302782

Status : Answered

Chosen Option : 3

Q.3 If '+' means 'x', '-' means '+', 'x' means '-' and '=' means '+', then what will be the value of $16 \div 36 - 6 \times 2 + 3 = ?$

- Ans 1. 14
 2. 16
 3. 26
 4. 20

Question ID : 2391302778

Status : Answered

Chosen Option : 2

Q.4 Select the related letter from the given alternatives.

CXFU : AZBY :: GTNM : ?

- Ans 1. EVJQ
 2. EROP
 3. RIIP
 4. IRRD

Question ID : 2391302765

Status : Answered

Chosen Option : 1

Q.5 Find the odd number pair from the given alternative.

- Ans 1. 42 - 33
 2. 46 - 10
 3. 12 - 91
 4. 25 - 43

Question ID : 2391302769

Status : Answered

Chosen Option : 3

Q.6 Seven friends - A, B, C, D, E, F and G are sitting in a circle facing at the centre. 'E' is neighbour of A and D. 'G' is not between 'F' and 'C'. 'F' is to the immediate right of 'A'. Who is sitting to the right of 'G'?

- Ans 1. D
 2. F
 3. A
 4. C

Question ID : 2391302774

Status : Answered

Chosen Option : 1

Q.7 What is related to 'Courage' in the same way as 'Kindness' is related to 'Cruelty'?

- Ans 1. Cowardice
 2. Fear

Question ID : 2391302764

Status : Answered

Chosen Option : 1

3. Bravery

4. Valour

Q.8 Select the one which is different from other three.

Ans 1. IRJQ

2. GHST

3. EVFU

4. KPLO

Question ID : 2391302768

Status : Answered

Chosen Option : 2

Q.9 Choose the correct alternative that will complete the given number series.

9, 17, 31, 57, ?, 205

Ans 1. 107

2. 102

3. 109

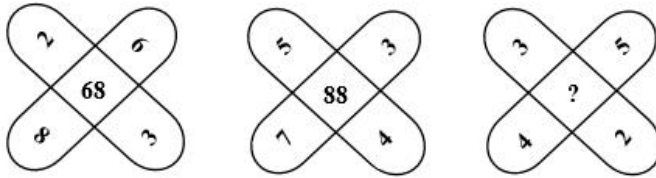
4. 104

Question ID : 2391302771

Status : Answered

Chosen Option : 1

Q.10 Find the missing number from the given alternatives.



Ans 1. 43

2. 41

3. 45

4. 42

Question ID : 2391302780

Status : Not Attempted

Chosen Option : --

Q.11 Four sets of three statements each are given below. Take these statements to be true even if they look factually absurd. Select one alternative in which third statement is implied by the first two statements.

Ans 1.

All J's are K's. All K's are M's. So, all M's are J's.

2.

All apples are red. All bananas are apples. So, all bananas are red.

3.

All locks are keys. Some ball are keys. So, all locks are balls.

4.

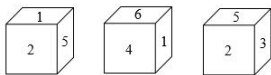
All tables are chairs. All cupboards are tables. So, all chairs are cupboards.

Question ID : 2391302783

Status : Answered

Chosen Option : 2

Q.12 Three positions of a cube are shown below. Which number will be opposite to the face containing 3?



Ans 1. 4

2. 6

3. 5

4. 1

Question ID : 2391302785

Status : Answered

Chosen Option : 4

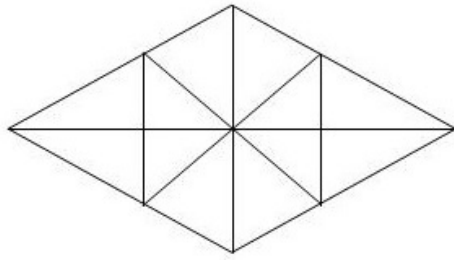
Q.13

Question ID : 2391302788

Status : Answered

Chosen Option : 1

How many triangles are there in the following figure?



- Ans
- 1. 20
 - 2. 12
 - 3. 28
 - 4. 24

Q.14 Mother's age is twice her daughter's age. The son is older than daughter by one year and father is five years older than mother. If son has completed 18 years, find father's age.

- Ans
- 1. 40 years
 - 2. 42 years
 - 3. 41 years
 - 4. 39 years

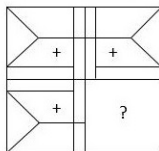
Question ID : 2391302775
 Status : Answered
 Chosen Option : 4

Q.15 Shyam walked 20 metres towards south. Then he turned to his left and walked 15 metres. He again turned to his left and walked 20 metres. He then turned to his right and walked 10 metres. How far and in which direction is Shyam from the starting point?

- Ans
- 1. 25 Metres, North
 - 2. 25 Metres, East
 - 3. 35 Metres, East
 - 4. 35 Metres, West

Question ID : 2391302781
 Status : Answered
 Chosen Option : 2

Q.16 Select the figure from the alternatives which will complete the pattern in given question figure.



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

Question ID : 2391302786
 Status : Answered
 Chosen Option : 1

Q.17

In the given letter series, which one set of letters when sequentially placed in the gaps shall complete it?
p _ n n m _ p m n _ m p _ m n _ m p

- Ans 1. m p n p n
 2. n p m p n
 3. n m n p p
 4. m n p n p

Question ID : 2391302770

Status : Answered

Chosen Option : 1

Q.18 Select the related number from the given alternatives.

 $23 : 34 :: 47 : ?$

- Ans 1. 65
 2. 69
 3. 62
 4. 72

Question ID : 2391302766

Status : Answered

Chosen Option : 2

Q.19 From the given alternatives select the word which cannot be formed using the letters of the given word.

ORGANISATION

- Ans 1. STRONG
 2. ORGAN
 3. GRANT
 4. REASON

Question ID : 2391302776

Status : Answered

Chosen Option : 4

Q.20 Some equations are solved on the basis of a certain system. Find the correct value for '?' on that basis.

 $8 * 6 = 28$
 $11 * 5 = 96$
 $15 * 7 = ?$

- Ans 1. 105
 2. 176
 3. 208
 4. 147

Question ID : 2391302779

Status : Answered

Chosen Option : 2

Q.21 'R' is the paternal uncle of 'P', who is the daughter of 'N' and 'N' is the daughter-in-law of 'M'. How is 'R' related to 'M'?

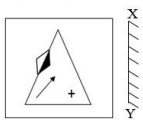
- Ans 1. Brother
 2. Son
 3. Son-in-law
 4. Cousin

Question ID : 2391302773

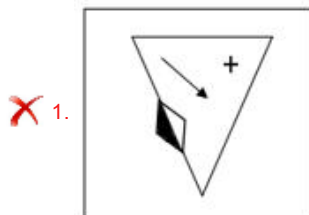
Status : Answered

Chosen Option : 2

Q.22 Which of the answer figure is exactly the mirror image of the question figure, when the mirror is held on the line X Y?



Ans



Question ID : 2391302787

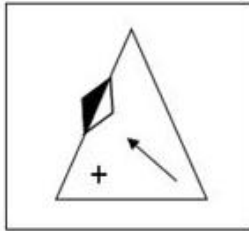
Status : Answered

Chosen Option : 2

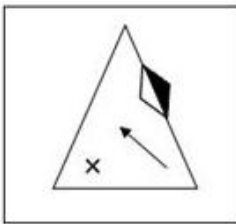
✓ 2.



✗ 3.



✗ 4.



Q.23 Identify the word which belongs to the class of given words.

Grams, Kilograms, Quintal

- Ans
- ✗ 1. Litre
 - ✓ 2. Tonnes
 - ✗ 3. Yard
 - ✗ 4. Kilometer

Question ID : 2391302767

Status : Answered

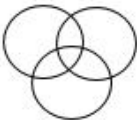
Chosen Option : 2

Q.24 Identify the diagram that best represents the relationship among classes given below.

Boys, Students, Athletes

Ans

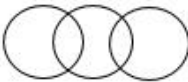
✓ 1.



✗ 2.



✗ 3.



✗ 4.



Question ID : 2391302784

Status : Answered

Chosen Option : 1

Q.25 Alok is older than Malvika. Gyan is older than Malvika but younger than Alok. Kamal is younger than Rashmi and Malvika. Malvika is older than Rashmi. Whose age is exactly in the middle of the five?

- Ans
- ✗ 1. Gyan
 - ✓ 2. Malvika
 - ✗ 3. Rashmi
 - ✗ 4. Alok

Question ID : 2391302772

Status : Answered

Chosen Option : 2

Section : General English

Q.1 In the following sentence, four words or phrases have been underlined. One of them is incorrect. Select the INCORRECT word or phrase from the given options.

You can be exempted from games only while you produce a medical certificate.

- Ans 1. only while
 2. produce
 3. from
 4. can be

Question ID : 2391302791

Status : Answered

Chosen Option : 2

Q.2 Select the ANTONYM of the given word.

PRECIOUS

- Ans 1. Worthless
 2. Loved
 3. Costly
 4. Valued

Question ID : 2391302800

Status : Answered

Chosen Option : 1

Q.3 Select the word that is spelt INCORRECTLY.

- Ans 1. moist
 2. molest
 3. moltan
 4. molecule

Question ID : 2391302804

Status : Answered

Chosen Option : 3

Q.4 Select the word that is spelt INCORRECTLY.

- Ans 1. Excel
 2. Access
 3. Expell
 4. Excess

Question ID : 2391302803

Status : Answered

Chosen Option : 3

Q.5 In the following sentence, four words or phrases have been underlined. One of them is incorrect. Select the INCORRECT word or phrase from the given options.

This is one of the five books that was launched yesterday at the Vigyan Bhawan.

- Ans 1. at
 2. one of the
 3. This
 4. that was

Question ID : 2391302789

Status : Answered

Chosen Option : 1

Q.6 Select the ANTONYM of the given word.

DESPAIR

- Ans 1. Hope
 2. Abandon
 3. Detest
 4. Reject

Question ID : 2391302802

Status : Answered

Chosen Option : 1

Q.7 Select the word that best expresses the meaning of the given word.

TRANQUIL

Ans

Question ID : 2391302798

Status : Answered

Chosen Option : 4

- 1. Silent
- 2. Tired
- 3. Active
- 4. Calm

Q.8 Select the word that is spelt INCORRECTLY.

- Ans
- 1. faucet
 - 2. fauna
 - 3. fault
 - 4. favaur

Question ID : 2391302805

Status : Answered

Chosen Option : 4

Q.9 In the following sentence, four words or phrases have been underlined. One of them is incorrect. Select the INCORRECT word or phrase from the given options.

A time came when Gautam Buddha began to feel weary with the luxuries surrounding him.

- Ans
- 1. began to
 - 2. came
 - 3. with
 - 4. when

Question ID : 2391302790

Status : Answered

Chosen Option : 3

Q.10 Select the ANTONYM of the given word.

STRAIGHT

- Ans
- 1. Crooked
 - 2. Weak
 - 3. Short
 - 4. Long

Question ID : 2391302801

Status : Answered

Chosen Option : 1

Q.11 Find the appropriate meaning of the underlined idiom.

A true friend will stand by you through thick and thin.

- Ans
- 1. in difficult times
 - 2. under all circumstances
 - 3. during summer time
 - 4. at the last moment

Question ID : 2391302808

Status : Answered

Chosen Option : 1

Q.12 Select the option that completes the sentence CORRECTLY.

I don't think you will have _____ difficulty in obtaining your driving license.

- Ans
- 1. some
 - 2. any
 - 3. a great deal
 - 4. many

Question ID : 2391302794

Status : Answered

Chosen Option : 2

Q.13 In the following sentence, four words or phrases have been underlined. One of them is incorrect. Select the INCORRECT word or phrase from the given options.


If Antarctica has a very cold climate a variety of sea birds is found there.

- Ans
- 1. a variety
 - 2. If
 - 3. has

Question ID : 2391302792





Status : Answered

Chosen Option : 2

 4. is found

Q.14 Select the option that completes the sentence CORRECTLY.

Next week I _____ to visit my cousin.

- Ans  1. will intend
 2. intend
 3. intending
 4. intended



Question ID : 2391302796

Status : Answered

Chosen Option : 2

Q.15 Select the word that best expresses the meaning of the given word.

COMPLIMENT

- Ans  1. Admire
 2. Agree
 3. Criticize
 4. Please





Question ID : 2391302797

Status : Answered

Chosen Option : 4

Q.16 Select the option that completes the sentence CORRECTLY.

If you have any queries to raise _____ please let me know now.

- Ans  1. up
 2. about
 3. no word required
 4. along





Question ID : 2391302795

Status : Answered

Chosen Option : 2

Q.17 Select the option that completes the sentence CORRECTLY.

My cousin felt annoyed with _____ when he saw what had happened due to his ignorance.

- Ans  1. myself
 2. itself
 3. himself
 4. oneself

Question ID : 2391302793

Status : Answered

Chosen Option : 3

Q.18 Select the word that best expresses the meaning of the given word.

CONCEAL

- Ans  1. Free
 2. Deceive
 3. Detest
 4. Hide





Question ID : 2391302799

Status : Answered

Chosen Option : 4

Q.19 Select the phrase that best expresses the meaning of the underline word.

It was a serious offence but he was allowed to go with a warning.

- Ans  1. let out
 2. let down
 3. let off
 4. let aside

Question ID : 2391302806

Status : Answered

Chosen Option : 3

Q.20

Question ID : 2391302807

Select the phrase that best expresses the meaning of the underlined word.

Status : **Answered**

I am grateful to my teacher who persistently scolded me for poor spelling.

Chosen Option : 4

Ans

- 1. pulled me up
- 2. pulled me out
- 3. pulled me off
- 4. pulled me through

Comprehension Passage:

Read the following passage and answer the given questions.

A desert is basically a wilderness or a wasteland. There is little moisture and poor soil such as sand gravel or rock. There are few plants to offer shade. Deserts can be described as harsh places. Many are burning hot by day and cold by night.

Every continent has deserts. Much of the western United States is a desert. A desert region called The Outback covers Central Australia. The southern tip of South America is largely desert. Northern Africa is covered by the Sahara, a desert as big as the mainland United States. The Arabian Peninsula, between the Persian Gulf and the Red Sea, is almost entirely desert. A large part of central Asia, from China to the Caspian Sea, is mostly desert. Deserts cover 1/8 of our planet.

The popular belief is that a desert is dry, hot, waterless and without shelter. But this is not entirely correct. For those who have studied it, the desert can be a beautiful place. It is home to a variety of people, animals and plants that have learnt to live under hot and dry conditions. A desert is not always a flat, unchanging wasteland of dry sand. It may have mountains and hills. It may have an oasis, big or small. An oasis is like a green island in the middle of a desert where a spring or a well gives plants and trees a better chance to grow.

All living things need water in order to survive. The few plants and animals that live in deserts have developed the ability to require less water than most plants and animals. Desert plants have adapted to heat and dryness of the desert. Plants such as cacti have special means of storing and conserving water. They often have few or no leaves. Some plants have gotten used to arid environments by growing extremely long roots, allowing them to acquire moisture at or by the water table.

The desert animals also have found a way to solve the heat and water problems the desert environment creates. Camels can drink a lot of water at one time. They can live without water for days together. The reason is they sweat very little. We sweat because we must keep our body temperature constant. We sweat when it gets hot, and this cools the body. Camels can stand a high body temperature. They don't need to sweat and can therefore retain the water they drink for long periods of time.

SubQuestion No : 21

Q.2
1 Why has an oasis been called 'green' island?An
s  1.


It has a source of water that supports vegetation.

 2.

It is surrounded by green hills and mountains.

 3.

The sand here is conducive for the vegetation.

 4. It is in the middle of a vast desert.

Question ID : 2391302812

Status : Answered

Chosen Option : 4

Comprehension Passage:

Read the following passage and answer the given questions.

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SubQuestion No : 22

Q.2 Certain plants are able to survive in deserts because they:

Ans 1. require less water than animals.

2.

have adapted to survive in hot and dry climate.

3. have thick stems and few leaves.

4. develop especially long roots.

Question ID : 2391302813

Status : Answered

Chosen Option : 2

Comprehension Passage:

Read the following passage and answer the given questions.

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SubQuestion No : 23

Q.2 The desert region called 'The Outback' is located in:

- Answers
- 1. North Africa
 - 2. Central Australia
 - 3. Central Asia
 - 4. South America

Question ID : 2391302811

Status : Answered

Chosen Option : 2

Comprehension Passage:

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SubQuestion No : 24

Q.2
4 What is the popular belief about the climatic conditions of a desert?

Ans  1.

It is sandy where no rain falls and no vegetation grow.

 2.

It is a region surrounded by mountains and hills.

Question ID : 2391302810

Status : Answered

Chosen Option : 1

✗ 3. A variety of animals and plants live there.

✗ 4.

It has vast land which is used for cultivation of flowers.

Comprehension Passage:

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SubQuestion No : 25

Q.2
5 Which of the following statements is not true according to the passage?

An

Question ID : 2391302814

Status : Answered

Chosen Option : 2

s 1.

Camels can retain water for a long time because they do not sweat.

 2.

About 1/8 area of the earth is covered by deserts.

 3.

The Arabian Peninsula between the Persian Gulf and Caspian Sea is entirely desert.

 4.

In a desert region there is little moisture and poor soil.

Section : Professional Knowledge

Q.1 With increase in moisture content of coal, its:

Ans 1.

clinking tendency during combustion increases

 2. calorific value increases 3. None of the other options 4. bulk density decreases

Question ID : 2391302893

Status : Answered

Chosen Option : 1

Q.2 The most important chemical in a self-rescuer is:

Ans 1. hopcalite 2. protosorb 3. calcium bromide 4. lithium chloride

Question ID : 2391302860

Status : Answered

Chosen Option : 1

Q.3 Gross and Net calorific value of coal will be the same if:

Ans 1. hydrogen content is zero 2. carbon content is very low 3. ash content is zero 4. ash content is very high

Question ID : 2391302892

Status : Answered

Chosen Option : 3

Q.4 For a cylindrical sample of cross section area A, length L, Young's modulus E, and axial load P, the strain energy stored is:

Ans 1. P^2L^2/AE 2. $P^2L/2AE$ 3. P^2L/AE 4. $PL^2/2AE$

Question ID : 2391302838

Status : Answered

Chosen Option : 2

Q.5 World's largest 'robot', a coal dragline featuring automated loading and unloading has the capacity of _____.

Ans 1. 2000t 2. None of the other options 3. 4000t 4. 3500t

Question ID : 2391302882

Status : Answered

Chosen Option : 4

Q.6 The rock bolts used for reducing the curing time and for increasing safety are:

- Ans
- 1. Expansion shell bolt
 - 2. Resin bolts
 - 3. Grouted bolts
 - 4. Slot & wedge bolts

Question ID : 2391302887

Status : Answered

Chosen Option : 3

Q.7 The backsight on a vertical staff on a benchmark is 2.535 m and the foresight on point B is 3.135 m. If the RL of the benchmark is 250.70 m, the RL of the point is:

- Ans
- 1. 247.015 m
 - 2. 250.100 m
 - 3. 253.285 m
 - 4. 253.885 m

Question ID : 2391302854

Status : Answered

Chosen Option : 2

Q.8 Stacker is commonly used to work in association with:

- Ans
- 1. payloader
 - 2. bucket wheel excavator
 - 3. dragline
 - 4. shovel

Question ID : 2391302827

Status : Answered

Chosen Option : 2

Q.9 Why the fleet angle is limited to 1.5° ?

- Ans
- 1. To reduce wear and tear of the winding rope
 - 2. To reduce side travel on the pulley
 - 3. To allow maximum persons to travel
 - 4. Allowing the use of lesser diameter winding rope

Question ID : 2391302869

Status : Answered

Chosen Option : 1

Q.10 The approximate length of a conveyor of loop take up portion of a belt conveyor is A% of the total conveyor length. A is given by:

- Ans
- 1. 2%
 - 2. 4%
 - 3. 1%
 - 4. 0.5%

Question ID : 2391302851

Status : Answered

Chosen Option : 3

Q.11 In the PERT network, the activity duration is assumed to follow:

- Ans
- 1. binomial distribution
 - 2. normal distribution
 - 3. beta distribution
 - 4. weibull distribution

Question ID : 2391302864

Status : Answered

Chosen Option : 3

Q.12 Dislocation of bed is caused by structure known as _____.

- Ans
- 1. decline fold
 - 2. fault
 - 3. None of the other options
 - 4. anticline fold

Question ID : 2391302878

Status : Answered

Chosen Option : 1

Q.13 Which one of these mining applications can not be performed by Geographical Information Systems?

- Ans
- 1. Land ownership & mineral claims

Question ID : 2391302885

Status : Answered

Chosen Option : 1

2.

Design of blasting in an underground excavation

3. Environmental quality monitoring

4. Site selection for housing & dumps

Q.14 Capacity factor of a wire rope is the ratio between:

Ans 1.

breaking load of the rope and weight of unit load of the rope

2. None of the other options

3.

breaking load of the rope and total rope suspended in it excluding the weight of the rope

4.

breaking load of the rope and total rope suspended in it including the weight of the rope

Question ID : 2391302912

Status : Answered

Chosen Option : 3

Q.15 Proximate analysis of coal determines:

Ans 1.

moisture, Sulphur, Nitrogen and fixed Carbon

2. None of the other options

3. moisture, ash, Sulphur and VM

4. moisture, ash, fixed carbon and VM

Question ID : 2391302899

Status : Answered

Chosen Option : 4

Q.16 Roof falls are more common, if the face is at:

Ans 1. Parallel to the main cleat

2. None of the other options

3. 60 degree to the main cleat

4. Right angles to the main cleat

Question ID : 2391302890

Status : Answered

Chosen Option : 1

Q.17 Which constituent is mainly responsible for easy ignition of coal?

Ans 1. Fixed carbon

2. Nitrogen

3. Ash

4. Volatile matter

Question ID : 2391302897

Status : Answered

Chosen Option : 4

Q.18 Maximum number of faces available for working in a shift in a 5 heading board and pillar development district is:

Ans 1. 12

2. 15

3. 13

4. 10

Question ID : 2391302818

Status : Answered

Chosen Option : 3

Q.19 Dust suppression by water has one of the following disadvantages:

Ans 1. causes the belt to slip

2. workers take rest during this period

3. increases humidity in the mine

4. blasting efficiency becomes poor

Question ID : 2391302841

Status : Answered

Chosen Option : 3

Q.20 For more output, a blast should be taken:

Question ID : 2391302820

- Ans 1. along the dip
 2. along the strike
 3. across the dip
 4. across the strike

Status : **Answered**
 Chosen Option : 1

Q.21 In case of an oxygen balance mix of an explosive, the release of energy on detonation is:

- Ans 1. Average
 2. Maximum
 3. Minimum
 4. None of the other options

Question ID : **2391302891**
 Status : **Answered**
 Chosen Option : 2

Q.22 Drawbar pull of a locomotive is:

- Ans 1. None of the other options
 2. less than its tractive effort
 3. more than its tractive effort
 4. equal to its tractive effort

Question ID : **2391302913**
 Status : **Answered**
 Chosen Option : 3

Q.23 The machine which is extensively used for direct casting operation in an opencast mine is:

- Ans 1. Front end loader
 2. Walking dragline
 3. Dredger
 4. BWE

Question ID : **2391302886**
 Status : **Answered**
 Chosen Option : 2

Q.24 Odometer is used for measurement of:

- Ans 1. Distance
 2. Pressure
 3. Temperature
 4. Area

Question ID : **2391302880**
 Status : **Answered**
 Chosen Option : 1

Q.25 What is the maximum height or width of advanced heading for dewatering of water-logged workings in coal mines?

- Ans 1. 3.0 m
 2. 2.4 m
 3. 3.6 m
 4. 2.0 m

Question ID : **2391302909**
 Status : **Answered**
 Chosen Option : 2

Q.26 Where the shaft exceeds 45 m in depth, the persons working at the bottom of the shaft shall be protected by a covering, which shall be kept lowered within "A" meters of the bottom of the shaft. "A" is given by:

- Ans 1. 22.5
 2. 32.5
 3. 42.5
 4. 52.5

Question ID : **2391302825**
 Status : **Answered**
 Chosen Option : 1

Q.27 The recommended scale for plan and sections for a mica mine is:

- Ans 1. 1 : 200
 2. 1 : 2000
 3. 1 : 500

Question ID : **2391302829**
 Status : **Answered**
 Chosen Option : 1

4. 1 : 1000

Q.28 In a point load test on 50 mm dia core specimen, rupture was observed at a load of 5000 kg. Point load strength of the specimen was:

- Ans 1. 300 kg/cm²
 2. 200 kg/cm²
 3. 500 kg/cm²
 4. 400 kg/cm²

Question ID : 2391302834

Status : Answered

Chosen Option : 2

Q.29 Which has the least volatile matter and hence is the most difficult to ignite:

- Ans 1. sub-bituminous coal
 2. anthracite
 3. coke
 4. bituminous coal

Question ID : 2391302896

Status : Answered

Chosen Option : 2

Q.30 A closed traverse ABCDE of perimeter 425 m has a total error of +0.35 m in latitude and -0.44 m in departure. The accuracy of traverse is:

- Ans 1. 1 in 1024
 2. 1 in 785
 3. 1 in 556
 4. 1 in 756

Question ID : 2391302857

Status : Answered

Chosen Option : 4

Q.31 Given below are the following mining method techniques. Match the appropriate techniques.

P. Thick seam extraction	1) Double unit face
Q. Bord and pillar extraction	2) Jet cutting
R. Longwall face development	3) Inclined slicing
S. Hydraulic mining	4) Half moon

Find the correct match.

- Ans 1. P-3, Q-4, R-2, S-1
 2. P-3, Q-2, R-1, S-4
 3. P-1, Q-4, R-2, S-3
 4. P-3, Q-4, R-1, S-2

Question ID : 2391302870

Status : Answered

Chosen Option : 4

Q.32 A coal seam of 1.5 m lying at a depth of 150 m from surface with an inclination of 5° is to be worked under normal conditions. Which should be preferred?

- Ans 1. slicing with caving
 2. board and pillar
 3. horizon mining
 4. longwall mining

Question ID : 2391302816

Status : Answered

Chosen Option : 2

Q.33 The ratio of length of explosive column to the hole diameter which will work as a spherical charge is:

- Ans 1. $L/D > 4$
 2. $L/D < 4$
 3. $L/D > 6$
 4. $L/D < 6$

Question ID : 2391302819

Status : Answered

Chosen Option : 4

Q.34 The length of line measured with a 20 m chain was found to be 536 m. It was afterwards found that the chain was 0.05 m too long. What will be the true length of the line?

- Ans 1. 568.5 m
 2. 512.3 m
 3. 587.5 m

Question ID : 2391302830

Status : Answered

Chosen Option : 4

✓ 4. 537.3 m

Q.35 Life of winding rope is not more than ____ years.

- Ans ✓ 1. 3.5
 ✗ 2. 4.5
 ✗ 3. 3
 ✗ 4. 1.5

Question ID : 2391302875

Status : Answered

Chosen Option : 1

Q.36 When one identical fan is installed in paralleled combination to an existing mine fan, then:

- Ans ✓ 1.
 Air quantity is doubled and pressure remains same
 ✗ 2.
 Pressure is doubled and air quantity remains same
 ✗ 3. Air quantity as well as pressure is doubled
 ✗ 4.
 Air quantity is quadrupled and pressure is doubled

Question ID : 2391302907

Status : Answered

Chosen Option : 2

Q.37 In a normal distribution curve, the area between one standard deviation from mean on either side in percent is:

- Ans ✓ 1. 68
 ✗ 2. 86
 ✗ 3. 50
 ✗ 4. 95

Question ID : 2391302866

Status : Answered

Chosen Option : 1

Q.38 The reduced bearing of a line is S 57° 36' W. What will be the whole circle bearing of the line?

- Ans ✗ 1. 212° 24'
 ✗ 2. 137° 36'
 ✓ 3. 237° 36'
 ✗ 4. 327° 36'

Question ID : 2391302832

Status : Answered

Chosen Option : 3

Q.39 Hardness of rock is defined by:

- Ans ✗ 1. RQD
 ✓ 2. RMR
 ✗ 3. Mohr's scale
 ✗ 4. FOS

Question ID : 2391302833

Status : Answered

Chosen Option : 3

Q.40 Why it is mandatory to remove silt from the sump?

- Ans ✗ 1. To maximize the head of water
 ✗ 2. To allow pump khalasi to enter
 ✓ 3. To maximize the sump capacity
 ✗ 4. To maintain regular flow of water in mines

Question ID : 2391302848

Status : Answered

Chosen Option : 3

Q.41 In ventilation network analysis, Kirchoff's first law is used, which states:

- Ans ✓ 1.
 The algebraic sum of quantities following at junction is zero
 ✗ 2.
 The resistance of an airway varies with the square of air velocity

Question ID : 2391302876

Status : Answered

Chosen Option : 1

3.

The pressure loss in a closed mesh cannot be predicted

4. The pressure loss in closed mesh is zero

Q.42 Intake air to a longwall panel has CO at 10 ppm and O₂ at 20.5%, whereas the return air has CO at 30 ppm and O₂ at 20.10%. Find out the Graham's ratio (%) for the oxidation process in panel.

- Ans
- 1. 0.1
 - 2. 0.4
 - 3. 0.8
 - 4. 0.5

Question ID : 2391302845

Status : Answered

Chosen Option : 4

Q.43 At the nozzle in hydraulic mining operations, what should be the minimum pressure to be maintained?

- Ans
- 1. 21-35 kgf/cm²
 - 2. 40-100 kgf/cm²
 - 3. 5-10 kgf/cm²
 - 4. 10-20 kgf/cm²

Question ID : 2391302872

Status : Answered

Chosen Option : 2

Q.44 The permissible closing error of an underground traverse having 16 stations measured with 10" theodolite is:

- Ans
- 1. 123 sec
 - 2. 121 sec
 - 3. 120 sec
 - 4. 128 sec

Question ID : 2391302828

Status : Answered

Chosen Option : 3

Q.45 Which of the following is added as sensitizers in explosive?

- Ans
- 1. Charcoal
 - 2. NH₄NO₃
 - 3. NaCl
 - 4. NG

Question ID : 2391302873

Status : Answered

Chosen Option : 4

Q.46 Three parallel splits of similar cross section and same type of roadway surface are respectively 400 m, 900 m, 1600 m long. The ratio of quantities flowing through them i.e Q₁ : Q₂ : Q₃ can be expressed as:

- Ans
- 1. 2 : 3 : 4
 - 2. 4 : 9 : 16
 - 3. 1/4 : 1/9 : 1/16
 - 4. 1/2 : 1/3 : 1/4

Question ID : 2391302842

Status : Answered

Chosen Option : 4

Q.47 Calorific value of bituminous coal is about:

- Ans
- 1. 2000 Kcal/kg
 - 2. 8000 Kcal/kg
 - 3. 4500 Kcal/kg
 - 4. 1500 Kcal/kg

Question ID : 2391302901

Status : Answered

Chosen Option : 3

Q.48 Over-riding of gallery incidence is most with:

- Ans
- 1. Long wall method
 - 2. Blasting gallery method
 - 3. Wide stall method
 - 4. Short wall method

Question ID : 2391302871

Status : Answered

Chosen Option : 2

Q.49 If the swell factor of ore in a shrinkage stope is 1.4, the output from the stope in percent of broken ore is:

- Ans 1. 29
 2. 0
 3. 100
 4. 40

Question ID : 2391302823

Status : Answered

Chosen Option : 1

Q.50 The preferred shape of an opening in a hydrostatic stress field is:

- Ans 1. an ovaloid
 2. an ellipse
 3. a rectangle
 4. a circle

Question ID : 2391302888

Status : Answered

Chosen Option : 4

Q.51 In order to get better safety, the optimum gradient of haul road is:

- Ans 1. 1 in 16
 2. 1 in 8
 3. 1 in 5
 4. 1 in 6

Question ID : 2391302826

Status : Answered

Chosen Option : 1

Q.52 What will be the equivalent RMR value as per Bieniawski (1989) for a rock mass rating of 20 based on Q-system?

- Ans 1. 55.71
 2. 70.96
 3. 45.30
 4. 46.90

Question ID : 2391302858

Status : Answered

Chosen Option : 2

Q.53 Black damp is defined as:

- Ans 1.
Amount of CO₂ and N₂ present in excess of the percentage over that which is normally present in atmospheric air.
2.
Amount of CO₂ and CH₄ present in excess of the percentage over that which is normally present in atmospheric air.
3.
Total amount of CO₂ and N₂ present in mine air.
4.
Total amount of CO₂ and CH₄ present in mine air.

Question ID : 2391302906

Status : Answered

Chosen Option : 1

Q.54 60 m wide longwall panel at a depth of 60 m results in a subsidence trough of width 110 m. The angle of draw is:

- Ans 1. 19.9°
 2. 18.4°
 3. 22.6°
 4. 39.8°

Question ID : 2391302839

Status : Answered

Chosen Option : 4

Q.55 The term CMMS stands for?

- Ans 1. Comprehensive Mine Management Systems
 2.
Computerized Maintenance Management Systems
 3. None of the other options
 4. Computerized Mine Management Systems

Question ID : 2391302884

Status : Answered

Chosen Option : 4

Q.56

Match the following:

a) Room and pillar	(i) Artificially supported
b) Shrinkage stopping	(ii) Heavily supported
c) Sub level stopping	(iii) Naturally supported
d) Square set stopping	(iv) Unsupported

- Ans
1. a → (ii), b → (i), c → (iv), d → (iii)
2. a → (ii), b → (iii), c → (iv), d → (i)
3. a → (iii), b → (i), c → (iv), d → (ii)
4. a → (iv), b → (ii), c → (iii), d → (i)

Question ID : 2391302877

Status : Answered

Chosen Option : 3

Q.57 Spontaneous combustion of coal on storage, results due to:

- Ans
1. inadequate ventilation
2. All of the other options
3. storage in large heaps with small surface to volume
4. low temperature oxidation

Question ID : 2391302898

Status : Answered

Chosen Option : 3

Q.58 While dealing with misfire shot, the reliving hole is drilled at a distance not less than:

- Ans
1. 40 cm
2. 20 cm
3. 30 cm
4. 10 cm

Question ID : 2391302874

Status : Answered

Chosen Option : 3

Q.59 Function of snub pulley in the belt conveyor system is:

- Ans
1. safety device
2. braking device
3. increasing the angle of wrap
4. cleaning device

Question ID : 2391302861

Status : Answered

Chosen Option : 3

Q.60 Automatic contrivance shall be provided in each shaft with an exceeding depth of:

- Ans
1. 50 m
2. 90 m
3. 70 m
4. 100 m

Question ID : 2391302868

Status : Answered

Chosen Option : 4

Q.61 A measure of dispersion of a sample of data set is:

- Ans
1. median
2. standard deviation
3. mode
4. mean

Question ID : 2391302865

Status : Answered

Chosen Option : 2

Q.62 The three time estimates of PERT network are assumed to follow:

- Ans
1. gamma
2. exponential
3. beta

Question ID : 2391302863

Status : Answered

Chosen Option : 3

4. normal

Q.63 Jack hammer drills are:

- Ans 1. rotary type drill machine
 2. rotary percussive type drill machine
 3. None of the other options
 4. percussive type drill machine

Question ID : 2391302914

Status : Answered

Chosen Option : 4

Q.64 Capacity to continue pumping operation even if air enters into water pipelines is known as _____.

- Ans 1. snore
 2. driver
 3. core
 4. carrier

Question ID : 2391302862

Status : Answered

Chosen Option : 1

Q.65 For a typical hard rock with $E = 10^5$ MPa, Poission ratio = 0.25, the modulus of rigidity in GPa is:

- Ans 1. 50
 2. 20
 3. 40
 4. 30

Question ID : 2391302836

Status : Answered

Chosen Option : 3

Q.66 Mean air temperature in a D.C. shaft of 400 m depth is 28°C and in the U.C. shaft is 38°C. Motive coloumn will be _____ m.

- Ans 1. 12.8
 2. 1.28
 3. 128
 4. 0.128

Question ID : 2391302843

Status : Answered

Chosen Option : 1

Q.67 The number of experimental sets of flat jack to determine 3-dimensional state of stress in a rock mass is:

- Ans 1. two
 2. six
 3. one
 4. three

Question ID : 2391302859

Status : Answered

Chosen Option : 1

Q.68 What is the track guage for tubs of 1.1 m³?

- Ans 1. 0.8 m
 2. 0.6 m
 3. 1 m
 4. 0.4 m

Question ID : 2391302849

Status : Answered

Chosen Option : 2

Q.69 The angle of draw in a trough subsidence helps in determining the:

- Ans 1. plane of fracture
 2. critical width of the opening
 3. extent of surface subsidence
 4. maximum subsidence

Question ID : 2391302840

Status : Answered

Chosen Option : 3

Q.70 Gyro attachment is used to determine:

- Ans 1. Magnetic north
 2. Horizontal angle

Question ID : 2391302903

Status : Answered

Chosen Option : 3

3. True North

4. Horizontal distance

Q.71 A mining equipment has a life of 5 years with no salvage value. Assuming that the depreciation of the equipment is calculated by the straight line method, the average annual value of the equipment in percentage of its original value is:

- Ans 1. 60
 2. 50
 3. 40
 4. 20

Question ID : 2391302852

Status : Answered

Chosen Option : 4

Q.72 High ash coals:

- Ans 1. require large time for carbonization
 2. are soft and friable
 3. None of the other options
 4. produce large quantity of coke oven gas

Question ID : 2391302895

Status : Answered

Chosen Option : 2

Q.73 Most modern method of correlation survey in a mine with vertical shaft is:

- Ans 1. By using Gyro, Laser and Nadir Plummet
 2. Weisbach Triangle method
 3. By using Laser and magnetic compass
 4. By suspending single plumb-wire in two shafts

Question ID : 2391302904

Status : Answered

Chosen Option : 1

Q.74 The stoichiometric composition of fire damp is:

- Ans 1. 5.5% CH₄ in air
 2. 9.5% CH₄ in air
 3. 14.5% CH₄ in air
 4. 5 to 14% CH₄ in air

Question ID : 2391302908

Status : Answered

Chosen Option : 2

Q.75 Find the amount of correction in 20 m chain for a line measured along a slope of 15°.

- Ans 1. 0.568 m
 2. 0.678 m
 3. 0.681 m
 4. 0.786 m

Question ID : 2391302856

Status : Answered

Chosen Option : 2

Q.76 In a mine, the kata factor of instrument is observed at 25 and the time taken by alcohol to fall from upper mark to lower mark is 10 sec. The cooling power will be _____ Semilli calories.

- Ans 1. 250
 2. 40
 3. 2.5
 4. 0.4

Question ID : 2391302844

Status : Answered

Chosen Option : 1

Q.77 For a delay blasting of 10 circuits a sequential timer is set on 25 ms between circuit initiations. If the nominal firing time of a detonator is 400 ms, the total add on time in ms for 10 circuits will be:

- Ans 1. 400
 2. 650
 3. 625
 4. 500

Question ID : 2391302817

Status : Answered

Chosen Option : 3

Q.78

What will be the back bearing of line AB along N 36° W?

- Ans
- 1. 54°
 - 2. 130°
 - 3. 36°
 - 4. 144°

Question ID : 2391302881

Status : Answered

Chosen Option : 4

Q.79 What should be the maximum value of fleet angle in a drum winder?

- Ans
- 1. 3.5°
 - 2. 4.5°
 - 3. 1.5°
 - 4. 2.5°

Question ID : 2391302850

Status : Answered

Chosen Option : 3

Q.80 If the ratio of critical width of the horizontal workings to the mining depth of a longwall mine is 1.4, the angle of draw in degrees for critical subsidence is:

- Ans
- 1. 40
 - 2. 20
 - 3. 35
 - 4. 45

Question ID : 2391302837

Status : Answered

Chosen Option : 3

Q.81 The yield load of hydraulic powered support is:

- Ans
- 1. equal to its setting load
 - 2. more than its setting load
 - 3. None of the other options
 - 4. less than its setting load

Question ID : 2391302911

Status : Answered

Chosen Option : 2

Q.82 In an open pit mine the market price of fresh copper is Rs. 1000 per tonne. The cost of mining as reported is Rs. 250 per tonne. The cost of removal of waste rock is Rs. 80 per tonne of waste. What will be the stripping ratio?

- Ans
- 1. 3.68
 - 2. 9.39
 - 3. 3.03
 - 4. 20

Question ID : 2391302821

Status : Answered

Chosen Option : 2

Q.83 During Brazilian test a of a cylindrical rock core of 54 mm diameter and 22 mm thickness, failure occurred at diametrical loading of 11.4 kN. The tensile strength of rock in MPa will be:

- Ans
- 1. 6.10
 - 2. 2.49
 - 3. 1.24
 - 4. 3.05

Question ID : 2391302835

Status : Answered

Chosen Option : 4

Q.84 The process of surface high wall recovery by making openings into the seam without removing the overburden is called _____.

- Ans
- 1. auger mining
 - 2. strip mining
 - 3. area mining
 - 4. contour mining

Question ID : 2391302822

Status : Answered

Chosen Option : 1

Q.85 Misaligned machine component creates one of the following:

- Ans
- 1. power overload
 - 2. bending moment

Question ID : 2391302867

Status : Answered

Chosen Option : 2

3. reduced rpm

4. machine fatigueness

Q.86 A coal heading 4 m wide and 2.5 m high has an advance of 1 m per cycle. The amount of explosive used in blasting is 6 kg. Taking specific gravity of coal as 1.5, the powder factor is _____.

Ans 1. 1.66 te/kg

2. 2.99 te/kg

3. 3.32 te/kg

4. 2.50 te/kg

Question ID : 2391302815

Status : Answered

Chosen Option : 4

Q.87 Find the correction for the curvature for the distance 2 km.

Ans 1. 1.04 m

2. 0.314 m

3. 4 m

4. 0.214 m

Question ID : 2391302831

Status : Answered

Chosen Option : 2

Q.88 The relationship of the tensions at the rope entering the wheel (T_1) and the rope leaving the wheel (T_2) in friction winder is given as:

Ans 1. $T_1/T_2 = e^\theta$

2. $T_1/T_2 = \mu e^\theta$

3. $T_1/T_2 = e^{k\theta}$

4. $T_1/T_2 = e^{v\theta}$

Question ID : 2391302847

Status : Answered

Chosen Option : 4

Q.89 The number of satellites and orbital planes in a GPS constellation (US system) are:

Ans 1. 24 and 6

2. 21 and 3

3. 25 and 5

4. 24 and 4

Question ID : 2391302855

Status : Answered

Chosen Option : 1

Q.90 In a contoured map if there are higher values inside the loop it indicates:

Ans 1. Ridge

2. Valley

3. Plane land

4. None of the other options

Question ID : 2391302889

Status : Answered

Chosen Option : 2

Q.91 Most popular hydraulic fluid used in power supports is:

Ans 1. emulsion of 20% oil and 80% water

2. emulsion of 5% water and 95% oil

3. emulsion of 5% oil and 95% water

4. emulsion of 20% water and 80% oil

Question ID : 2391302910

Status : Answered

Chosen Option : 2

Q.92 A locomotive weighs 20 tonne and the adhesion to tracks is 2246 N per tonne. What will be the tractive effort?

Ans 1. 44920

2. 4583.6

3. 224.6

4. 112.3

Question ID : 2391302846

Status : Answered

Chosen Option : 1

Q.93 Most of the caking coals are:

- Ans
- 1. lignite
 - 2. None of the other options
 - 3. bituminous
 - 4. anthracite

Question ID : 2391302894

Status : Answered

Chosen Option : 3

Q.94 The tool used to correct borehole deviation is:

- Ans
- 1. string shot
 - 2. whipstock
 - 3. ratchet
 - 4. kelly

Question ID : 2391302824

Status : Answered

Chosen Option : 2

Q.95 The staff reading at a point A on the floor of a mine is 1.250 m. The R.L. of point A is 120.450 m. What will be the R.L. of the roof point B, if the staff reading at B is 1.560 m?

- Ans
- 1. 120.140 m
 - 2. 120.450 m
 - 3. 121.450 m
 - 4. 123.260 m

Question ID : 2391302905

Status : Answered

Chosen Option : 4

Q.96 The scales of the mine plans are generally required to be maintained on the scale of:

- Ans
- 1. 1 : 4000
 - 2. 1 : 330
 - 3. 1 : 2000
 - 4. 1 : 2500

Question ID : 2391302902

Status : Answered

Chosen Option : 3

Q.97 Pop shooting or plaster shooting is a type of:

- Ans
- 1. Primary Blasting
 - 2. Clay Capping
 - 3. Secondary Blasting
 - 4. Muffling

Question ID : 2391302879

Status : Answered

Chosen Option : 3

Q.98 Among the mentioned mining applications below, which one cannot be performed by GPS?

- Ans
- 1. Monitoring of Roadheaders in an underground development gallery
 - 2. Updating Opencast Mine Information Systems
 - 3. Tracking of Auxiliary Equipments in Opencast mines
 - 4. Automation of Truck Dispatch System

Question ID : 2391302883

Status : Answered

Chosen Option : 1

Q.99 Hoskold's formula is used for:

- Ans
- 1. depreciation
 - 2. speculative rate of return
 - 3. ore reserve calculation
 - 4. salting

Question ID : 2391302853

Status : Answered

Chosen Option : 1

Q.10
0 For washing of fine coal:

- Ans
- 1. None of the other options
 - 2. Heavy media bath is used
 - 3. Flotation is used
 - 4. Jig is used

Question ID : 2391302900

Status : Answered

Chosen Option : 4