

# Telangana State Council Higher Education

Notations :

1.Options shown in green color and with icon are correct.

2.Options shown in red color and with icon are incorrect.

Question Paper Name :	Minmg Engineering 13th Aug 2021 Shift I
Subject Name :	Minmg Engineering
Creation Date :	2021-08-13 1 5.04.33
Duration :	120
Total Marks :	120
Display Marks:	Yes
Calculator :	None
Magnifying Glass Required? :	
Ruler Required? : No Eraser Required? : No	
Scratch Pad Required? :	
Rough Sketch/Notepad Required? :	
Protractor Required? :	No
Show Watermark on Console? : Yes Highlighter :	
Auto Save on Console? :	Yes

## Mining Engineering

Group Number :	1
Group Id :	63643128
Group Maximum Duration :	
Group Minimum Duration :	120
Show Attended Group? :	No
Edit Attended Group? :	No
Break time :	
Group Marks :	120

Is this Group for Examiner? : No

## Mathematics

Section Id : 63643152  
Section Number : 1  
Section type : Online  
Mandatory or Optional : Mandatory  
Number of Questions : 10  
Number of Questions to be attempted : 10  
Section Marks : 10  
Enable Mark as Answered Mark for Review and Clear Response : Yes  
Sub-Section Number : 1  
Sub-Section Id : 63643152  
Question Shuffling Allowed : Yes  
Question Number : 1 Question Id : 6364313241 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical  
Correct Marks : 1 Wrong Marks : 0

One of the eigen values of a singular square matrix is

Options :

3

2

1

0

Question Number : 2 Question Id : 6364313242 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical Correct Marks : 1 Wrong Marks : 0

The number of solutions of the system of linear equations:

$$x + 1, 2x - 3y + 2z = 5, 3x - 2y + z = 6 \text{ is}$$

Options :

Infinitely many

2. 8 1

2

Question Number : 3 Question Id : 6364313243 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical Correct Marks : 1 Wrong Marks : 0

$$\lim_{x \rightarrow 0} \left( \frac{2^x + 2^{2x} + 2^{3x}}{3} \right)^{\frac{1}{x}}$$

Options :

1. 8 2

5

Question Number : 4 Question Id : 6364313244 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical Correct Marks : 1 Wrong Marks : 0

If  $a_n = \sum_{k=1}^n \frac{k(k+2)}{(k+1)^2}$ , then  $\lim_{n \rightarrow \infty} a_n =$   
Options :

2.4 1

4.8 3

Question Number : 5 Question Id : 6364313245 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical Correct Marks : 1 Wrong Marks : 0

If C is the curve  $x + 16y = 16$ , then  $\int_C x dy - y dx =$

C

Options :

6 7t

3. ✓  $8\pi$

10 7t

Question Number : 6 Question Id : 6364313246 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical Correct Marks : 1 Wrong Marks : 0

The vector  $f = (x + 3y)i + (y - 3z)j + (x - 2z)k$  is

Options :

Solenoidal

In-otational

Solenoidal and inotational

Conservative

Question Number : 7 Question Id : 6364313247 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical Correct Marks : 1 Wrong Marks : 0

The panicular integral of  $x^2 y''' - y' = x$  is

Options :

$\frac{-x^2}{2}$

$$\frac{x^2}{2}$$

$$\frac{-x^2}{4}$$

$$\frac{x^2}{4}$$

Question Number : 8 Question Id : 6364313248 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical Correct Marks : 1 Wrong Marks : 0

If  $X$  is a Poisson variate and  $P(X = 3) = P(X = 5)$  then  $P(X=0)$  -  
Options :

$$-2$$

$$-26$$

$$2$$

Question Number : 9 Question Id : 6364313249 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical Correct Marks : 1 Wrong Marks : 0

If  $y_0 = 1, y_1 = 0.5, y_2 = 0.2, y_3 = 0.1, y_4 = 0$ , then the value of  $\int_0^4 y dx$  by Simpson's  $\frac{3}{8}$  rule is  $= 0.06, = 0.04$  and  $= 0.03$ , then the

Options :

0.9075

0.91

0.9

0.905

Question Number : 10 Question Id : 6364313250 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical Correct Marks : 1 Wrong Marks : 0

If the solution of  $y'' + 4y = 0$ ,  $y(0) = 2$ ,  $y'(0) = 1$  is  $a \cos 2x + b \sin 2x$ , then

Options :

-1  
2

1  
2, -  
2

3. ✖  $\left(-2, \frac{1}{2}\right)$

4. ✖  $\left(-2, \frac{-1}{2}\right)$



## Mining Engineering

Section Id :	63643153
Section Number :	2
Section type :	Online
Mandatory or Optional :	Mandatory
Number of Questions :	110
Number of Questions to be attempted :	110
Section Marks :	110
Enable Mark as Answered Mark for Review and Clear Response :	Yes
Sub-Section Number :	1
Sub-Section Id :	63643153
Question Shuffling Allowed :	Yes
Question Number : 11 Question Id : 6364313251 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical Correct Marks : 1 Wrong Marks : 0	

A square pillar in a Bord and Pillar panel is of size 30.0 m centre to centre and the gallefies are of width 4.0 m. Then the tributary area of each pillar in m is

Options :

224

256

676

884

Question Number : 12 Question Id : 6364313252 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Proximate analysis of coal involves determination of the following properties

Options :

Carbon, hydrogen, nitrogen, sulphur content in the coal

Moisture, carbon content, ash content and sulphur

Carbon, ash content, calorific value and sulphur

Moisture, volatile matter, ash content and fixed carbon content

Question Number : 13 Question Id : 6364313253 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

A coal seam is 1.8 m thick, dipping at 1 in 2, lying at depth of 1.450 m. The coal is easily friable and moisture content is less. Under these conditions, which one of the following methods is best suitable for winning the deposit

Options :

Longwall advance method

Longwall retreat method

Continuous miner method

## Underground Coal gasification

Question Number : 14 Question Id : 6364313254 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical Correct Marks : 1 Wrong Marks : 0

As per CMR, 2017 under Regulation -111, the size of the pillars in the bord and pillar development district depends on

Options :

Width of the gallery and height of the pillar

Width of the gallery and strength of the coal seam

Width of the gallery and depth of cover

Height of the pillar and depth of cover

Question Number : 15 Question Id : 6364313255 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical Correct Marks : 1 Wrong Marks : 0

The danger of air blasts in underground mines is maximum with

Options :

Stope and pillar mining

✘ Cut and fill mining

✘ Shrinkage stoping

## Blasting gallery method

Question Number : 16 Question Id : 6364313256 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is  
Question Mandatory : No Option Orientation : Vertical Correct Marks : 1 Wrong Marks : 0

The energy consumed during crushing and grinding is directly proportional to the size reduction ratio. This law is called as

Options :

Rittenger's law

Kick's Law

Bond's Law

Kirchoff s Law

Question Number : 17 Question Id : 6364313257 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is  
Question Mandatory : No Option Orientation : Vertical  
Correct Marks : 1 Wrong Marks : 0

Hoolamite is a mixture of

Options :

Iodine pentoxide and sulphuric acid

✘ Manganese dioxide and copper oxide

Iodine pentoxide and copper oxide

Manganese dioxide and sulphuric acid

Question Number : 18 Question Id : 6364313258 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical Correct Marks : 1 Wrong Marks : 0

The correct sequence of hardness of minerals according to Moh 's hardness scale in descending order is

Options :

Quartz — Apatite — Calcite — Gypsum

Quartz — Apatite — Gypsum — Calcite

Calcite — Apatite — Gypsum — Quartz

Apatite — Quartz — Gypsum — Calcite

Question Number : 19 Question Id : 6364313259 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical Correct Marks : 1 Wrong Marks : 0

The common test for \_\_\_\_\_ gas consists of exposing a filter paper soaked with starch and potassium iodide solution

Options :

1. Hydrogen sulphide

Nitrogen dioxide

Sulphur dioxide

Ammonia

Question Number : 20 Question Id : 6364313260 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is  
Question Mandatory : No Option Orientation : Vertical  
Correct Marks : 1 Wrong Marks : 0

The chemical used in a self rescuer is

Options :

Calcium chloride

Hopcalite

Protosorb

Potassium phosphate

Question Number : 21 Question Id : 6364313261 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is  
Question Mandatory : No Option Orientation : Vertical  
Correct Marks : 1 Wrong Marks : 0

Angle of draw is defined as the angle between

Options :

The vertical and the line joining the limit of extraction and point on the surface  
where vertical subsidence observed is zero or negligible

The vertical and the line joining the limit of extraction and point on the surface where tensile strain observed is maximum

The vertical and the line joining the limit of extraction and point on the surface where compressive strain observed is maximum

The vertical and the line joining the limit of extraction and point on the surface where surface fracture occurs

Question Number : 22 Question Id : 6364313262 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical Correct Marks : 1 Wrong Marks : 0

The approximate value of vertical stress due to super-incumbent strata in coal measure rocks in MPa per metre depth is

Options :

0.05

0.04

0.01

0.025

Question Number : 23 Question Id : 6364313263 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is  
Question Mandatory : No Option Orientation : Vertical Correct Marks : 1 Wrong Marks : 0

Small man clip device is used in

Options :

Endless rope haulage system

Main and tail haulage system

Direct rope haulage system

Mono cable ropeway system

Question Number : 24 Question Id : 6364313264 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is  
Question Mandatory : No Option Orientation : Vertical  
Correct Marks : 1 Wrong Marks : 0

Front abutment pressure in a Longwall panel occurs

Options :

1. At 1 to 3 m ahead of the face in the coal block in the un-excavated region

✘ At the goaf of a longwall panel where full consolidation has taken place

At the bamer pillars along the gate roadways of the panel

✘

At the pillars along the tail gate of the panel

✘



Question Number : 25 Question Id : 6364313265 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is  
Question Mandatory : No Option Orientation : Vertical  
Correct Marks : 1 Wrong Marks : 0

The device used for bending the rail to suitable curvature is called as

Options :

Jockey

Jim crow

Monkey catch

#### 4. Sylvester

Question Number : 26 Question Id : 6364313266 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is  
Question Mandatory : No Option Orientation : Vertical  
Correct Marks : 1 Wrong Marks : 0

If the diameter of the winding rope is 25 mm, then the recommended diameter of  
the winding drum is

Options :

1.0m

1.5 m

2.5 m

3.5 m

Question Number : 27 Question Id : 6364313267 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is  
Question Mandatory : No Option Orientation : Vertical Correct Marks : 1 Wrong Marks : 0

The maximum air consumption of jack hammer m m minute is

Options :

0.3

3.0

2.0

1.5

Question Number : 28 Question Id : 6364313268 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is  
Question Mandatory : No Option Orientation : Vertical  
Correct Marks : 1 Wrong Marks : 0

In hard and brittle rock, the type of drill cut pattern best to more pull is

Options :

Fan cut

Pyramid cut

Bum cut

Wedge cut

Question Number : 29 Question Id : 6364313269 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is  
Question Mandatory : No Option Orientation : Vertical  
Correct Marks : 1 Wrong Marks : 0

The elements involved in the preparation of white metal in white metal capel is

Options :

Lead, copper and tin

Lead, antimony and tin

Lead, antimony and zinc

Zinc, antimony and tin

Question Number : 30 Question Id : 6364313270 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is  
Question Mandatory : No Option Orientation : Vertical  
Correct Marks : 1 Wrong Marks : 0

Quartzite is a

Options :

Metamorphic rock

Sedimentary rock

Igneous rock

Plutonic rock

Question Number : 31 Question Id : 6364313271 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is  
Question Mandatory : No Option Orientation : Vertical  
Correct Marks : 1 Wrong Marks : 0

Coal bums are a panomenon occumng in coal seams

Options :

In shallow coal mnes

In deep coal mines

In development in shallow mmes

In moderatic deep coal mine

Question Number : 32 Question Id : 6364313272 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is  
Question Mandatory : No Option Orientation : Vertical  
Correct Marks : 1 Wrong Marks : 0

Stripping ratio is defined as

Options :

Thickness of the overburden to the thiclness of the ore body

Volume of the overburden removed to the volume of the ore mined

Total mass of the ore mined to the volume of the overburden removed

Volume of the overburden removed to the total mass of ore mined

Question Number : 33 Question Id : 6364313273 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical

Correct Marks : 1 Wrong

Marks : 0 A flame safety lamp is used

Options :

To detect spontaneous combustion of coal

For mine illumination

To detect carbon monoxide

To detect methane gas

Question Number : 34 Question Id : 6364313274 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

ANFO is used in

Options :

Small diameter water holes

Large diameter water holes

Large diameter dry holes

Underground coal mines

Question Number : 35 Question Id : 6364313275 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical Correct Marks : 1 Wrong Marks : 0

Foam extinguishers are suitable for

Options :

Electrical fires

Liquid fires

Solid fires

Metallic fires

Question Number : 36 Question Id : 6364313276 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical Correct Marks : 1 Wrong Marks : 0

The maximum pennissible percentage of C02 in underground coal mines is

Options :

0.5

0.05

0.75

0.005

Question Number : 37 Question Id : 6364313277 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Identify the correct statement in respect of homotropical ventilation system

Options :

The intake and return air moves in adjacent roadways

The mineral and air moves in opposite direction in the roadway

The mineral and air moves in same direction in the roadway

The ventilation air moves along the boundary of the panel

Question Number : 38 Question Id : 6364313278 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical Correct Marks : 1 Wrong Marks : 0

If the gradient is less than 1 in 6, the manholes in haulage roadways may be provided at intervals not more than\_\_\_\_\_

Options :

10m

15m

20 m

30 m

Question Number : 39 Question Id : 6364313279 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical Correct Marks : 1 Wrong Marks : 0

For a hilly steeply dipping deposit, the mode of access to the deposit at the valley level is

Options :

Shaft

Adit

Incline

Decline

Question Number : 40 Question Id : 6364313280 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical Correct Marks : 1 Wrong Marks : 0

A double tube swivel type core banel in diamond drilling is used when the

Options :

Rock is modemtely hard

Rock is very hard



Core is to be obtained from a shallow depth



Rock is soft

Question Number : 41 Question Id : 6364313281 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is  
Question Mandatory : No Option Orientation : Vertical Correct Marks : 1 Wrong Marks : 0

A safety catch in a winding system is used

Options :

To prevent the jerks

To enable smooth landing of the cage



To control over speed

To hold the cage falling into the shaft

Question Number : 42 Question Id : 6364313282 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is  
Question Mandatory : No Option Orientation : Vertical  
Correct Marks : 1 Wrong Marks : 0

The internal rate of return (IRR) of a project is the discount rate at which

Options :

Profit after tax is zero

Net present value of the project is zero

Revenue from the project is zero

Profit before tax is zero

Question Number : 43 Question Id : 6364313283 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical Correct Marks : 1 Wrong Marks : 0

The type of mining suggested for a steeply inclined 20 m thick ore when the side walls are weak, ore is strong and firm is

Options :

Shrinkage stoping

Room and pillar mining

Cut and fill mining

Sub-level stoping

Question Number : 44 Question Id : 6364313284 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical Correct Marks : 1 Wrong Marks : 0

A back sight on a bench mark RL 100.00 m on the floor of a tunnel is 3.25 m.

The inverse staff reading on a floor station of the tunnel is 1.25 m. The roof station RL value is

\_\_\_\_\_

Options :

101.25 111

104.5 m

103.25 m

102.0 m

Question Number : 45 Question Id : 6364313285 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical Correct Marks : 1 Wrong Marks : 0

Which of the following relationship is correct with reference to mine ventilation

Options :

1. ✘  $P = R / Q^2$

$P = RQ^2$

3. ✘  $P = R / Q$

4. ✘  $P = R^2 Q$

Question Number : 46 Question Id : 6364313286 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical Correct Marks : 1 Wrong Marks : 0

In which type of following ore reserve estimation, the level of confidence is high

Options :

Proved reserves

Indicated reserves

Inferred reserves

Possible reserves

Question Number : 47 Question Id : 6364313287 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

In December, 2018, about 22 miners died in an illegal rat-hole coal mine in Meghalaya. The cause of the accident was due to

Options :

Mine fire

Fire damp explosion

Coal dust explosion

Mine inundation

Question Number : 48 Question Id : 6364313288 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Hoskold's formula is used to determine the

Options :

Depreciation of an equipment

Net present value of a mining company

✘ Strength of a coal pillar

Factor of safety of a slope

Question Number : 49 Question Id : 6364313289 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is  
Question Mandatory : No Option Orientation : Vertical  
Correct Marks : 1 Wrong Marks : 0

While working of a contiguous seams, at any time during the extraction, the parting between two adjacent seams should not be less than

Options :

9.0m

2. 7.0m

5.0m

4 93.0m

Question Number : 50 Question Id : 6364313290 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is  
Question Mandatory : No Option Orientation : Vertical Correct Marks : 1 Wrong Marks : 0

The thickness to diameter ratio of rock samples recommended as per ISRM standards for detennining tensile strength of rocks in the laboratory by Brazilian method is

Options :

2.0

1.5

1.0

0.5

Question Number : 51 Question Id : 6364313291 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is  
Question Mandatory : No Option Orientation : Vertical  
Correct Marks : 1 Wrong Marks : 0

Transit theodolite is a

Options :

Micro-optic theodolite

Theodolite with face left and face light facilities

Theodolite with stadia hairs

Theodolite with two vertical circles

Question Number : 52 Question Id : 6364313292 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is  
Question Mandatory : No Option Orientation : Vertical  
Correct Marks : 1 Wrong Marks : 0

Sillface contour lines and spot level on the mine roadways are to be shown on the underground mine plan to

Options :

Detennine the depth of cover

✘ Conelate surface and underground workings

Estimate the thickness of the coal seam

Estimate direction of the tme dip of the deposit

Question Number : 53 Question Id : 6364313293 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is  
Question Mandatory : No Option Orientation : Vertical  
Correct Marks : 1 Wrong Marks : 0

The main purpose of back filling in a cut and fill stoping method is

Options :

Reduce ore dilution

To prevent high stress concentration in the far field domain

Prevent displacement due to dilution of fractured wall rock

To improve stope ventilation

Question Number : 54 Question Id : 6364313294 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is  
Question Mandatory : No Option Orientation : Vertical  
Correct Marks : 1 Wrong Marks : 0

The approximate limiting gradient (with reference to horizontal) for coal (ROM) transport in a belt conveyor system is

Options :

100

180

300

250

Question Number : 55 Question Id : 6364313295 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical Correct Marks : 1 Wrong Marks : 0

Which of the following type of drilling systems is used while approaching water logged areas in underground mines

Options :

Upside safety boring apparatus

Down the hole drills

Chum drills

Ordinary coal chills



Question Number : 56 Question Id : 6364313296 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0 Which of the following instruments are permitted to be used for sampling respirable dust in underground mines

Options :

Scrubber

Gravimetric dust samplers

Konimeter

Electrostatic precipitators

Question Number : 57 Question Id : 6364313297 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0 Grab

is used in

Options :

Shaft sinking

Exploratory chilling operations

Loading in faces of opencast mines

Loading in faces of underground mines

Question Number : 58 Question Id : 6364313298 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is  
Question Mandatory : No Option Orientation : Vertical Correct Marks : 1 Wrong Marks : 0 Keys are used in

Options :

All types of balanced winding systems

Winding in sinking shafts

Koepe winding

Drum winding

Question Number : 59 Question Id : 6364313299 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is  
Question Mandatory : No Option Orientation : Vertical  
Correct Marks : 1 Wrong Marks : 0

Kata thermometer is used to determine

Options :

Effective temperature of mine air

Cooling power of mine air

Relative humidity of mine atmospheric air

Underground strata temperature

Question Number : 60 Question Id : 6364313300 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is  
Question Mandatory : No Option Orientation : Vertical Correct Marks : 1 Wrong Marks : 0

The voltage of signalling system in underground coal mines should not exceed

Options :

20 v

25 v

30 v

10 v

Question Number : 61 Question Id : 6364313301 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is  
Question Mandatory : No Option Orientation : Vertical  
Correct Marks : 1 Wrong Marks : 0

Sub level stoping is used for

Options :

Thick ore deposit

Thin ore deposits

Massive deposits

Reef type deposits

Question Number : 62 Question Id : 6364313302 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is  
Question Mandatory : No Option Orientation : Vertical  
Correct Marks : 1 Wrong Marks : 0

The widely practised method of stowing in Indian coal mines is

Options :

Gravity stowing

Mechanical stowing

Hydraulic stowing

Pneumatic stowing

Question Number : 63 Question Id : 6364313303 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is  
Question Mandatory : No Option Orientation : Vertical Correct Marks : 1 Wrong Marks : 0

The science of obtaining information about an object, area or phenomenon from the data acquired by a device not in contact with it is known as

Options :

Cadastral surveying

Remote sensing

Photogrammetry

Geodetic surveying

Question Number : 64 Question Id : 6364313304 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is  
Question Mandatory : No Option Orientation : Vertical Correct Marks : 1 Wrong Marks : 0

The voltage supply for portable hand-held electric coal drill machine used in underground coal mine is

Options :

250 v

220 v

3.4 125 v

25 v

Question Number : 65 Question Id : 6364313305 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is  
Question Mandatory : No Option Orientation : Vertical  
Correct Marks : 1 Wrong Marks : 0

The purpose of a lid in a prop is to

Options :

Decrease the load on the prop

Hold the prop between roof and floor

Set the prop with ease

Distribute resistance of prop over a slightly wider area than its cross section

Question Number : 66 Question Id : 6364313306 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is  
Question Mandatory : No Option Orientation : Vertical  
Correct Marks : 1 Wrong Marks : 0

The strength of the stranded wire rope is proportional to the

Options :

Diameter of the rope

Square of the diameter of the rope

Square root of the diameter of the rope

Perimeter of the rope

Question Number : 67 Question Id : 6364313307 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical Correct Marks : 1 Wrong Marks : 0

The ratio of theoretical power input ( $P_1/P_2$ ) of two centrifugal fans having same specific speed and operating at same speed is given by

Options :

$(D_1/D_2)^2$

$(D_1/D_2)^3$

$(D_1/D_2)^4$

$(D_1/D_2)^5$

Question Number : 68 Question Id : 6364313308 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

The nature of tangential stress develop at the crown of a circular opening for uniaxial in situ stress acting along vertical direction (GH=O) condition is

Options :

Tensile

Compressive



Zero

In sufficient data

Question Number : 69 Question Id : 6364313309 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is

Question Mandatory : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

The magnetic bearing of a line is  $65^{\circ} 30'$ . If the declination is  $4^{\circ} 30'$  W. Then the true bearing of the line is

Options :

$70^{\circ} 0'$

$61^{\circ} 0'$

$63^{\circ} 15'$

67° 45'

Question Number : 70 Question Id : 6364313310 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is  
Question Mandatory : No Option Orientation : Vertical  
Correct Marks : 1 Wrong Marks : 0

Vertical ring drilling is carried out in

Options :

Longwall mining

Shrinkage stoping

Cut and fill stoping

Sub level stoping

Question Number : 71 Question Id : 6364313311 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is  
Question Mandatory : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0 Which of the following  
minerals has highest specific gravity

Options :

Wolframite

Pyrite

Magnetite



## Hematite

Question Number : 72 Question Id : 6364313312 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical Correct Marks : 1 Wrong Marks : 0

In a self contained breathing apparatus, the wearer can take more oxygen than he gets through the circuit is achieved by operating

Options :

Main valve

Reducing valve

Relief valve

By pass valve

Question Number : 73 Question Id : 6364313313 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical Correct Marks : 1 Wrong Marks : 0

The following properties can be determined using triaxial testing of rocks in the laboratory

Options :

Compressive strength and angle of draw

Compressive strength and angle of internal friction

Compressive strength and angle of cohesion

Compressive strength and angle of repose

Question Number : 74 Question Id : 6364313314 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is  
Question Mandatory : No Option Orientation : Vertical  
Correct Marks : 1 Wrong Marks : 0

RMR stands for

Options :

Rock Mass Rating

Rock Mean Rating

Rock Measure Rating

Rock More Rating

Question Number : 75 Question Id : 6364313315 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is  
Question Mandatory : No Option Orientation : Vertical  
Correct Marks : 1 Wrong Marks : 0

The explosive limit of methane gas in mine atmosphere is

Options :

1. ✘ 4 to 12%

1.25 to 4%

3. ✓ 5 to 15%

0.5 to 4.0%

Question Number : 76 Question Id : 6364313316 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical Correct Marks : 1 Wrong Marks : 0

The boundary of a mine is plotted on a scale of 1:2000. If a planimeter measures the plotted area as  $100 \text{ cm}^2$ , the actual mine area in m is

Options :

4,00,000

2. ✗ 2,00,000

20,000

40,000

Question Number : 77 Question Id : 6364313317 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical Correct Marks : 1 Wrong Marks : 0

If the wet bulb and dry bulb of hygrometer indicate same temperature, then the relative humidity in the atmosphere is

Options :

1. ✗ 0%

100%

3. ✗ 50%

Data insufficient

Question Number : 78 Question Id : 6364313318 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is  
Question Mandatory : No Option Orientation : Vertical  
Correct Marks : 1 Wrong Marks : 0

Pennitted explosive is the one

Options :

Specially approved for underground gassy mines and for solid blasting

That are used in underground mines

Which produce less vibrations and noise

Specially approved for surface gassy mines

Question Number : 79 Question Id : 6364313319 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is  
Question Mandatory : No Option Orientation : Vertical Correct Marks : 1 Wrong Marks : 0

The drum shearer on a longwall face is mounted on

Options :

Its own skid

✘ On a separate track AFC

Support frame

Question Number : 80 Question Id : 6364313320 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical Correct Marks : 1 Wrong Marks : 0

SSR, as per CNR-2017 means

Options :

- Scientific support rules
- Scientific support rating

3..4 Systematic suppoft mles

Systematic suppolt rating

Question Number : 81 Question Id : 6364313321 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical Correct Marks : 1 Wrong Marks : 0

The back bealing of line AB is  $266^{\circ} 30'$ . Then its fore beafing would be

Options :

176<sup>0</sup> 30'

186<sup>0</sup> 30'

86<sup>0</sup> 30'

346<sup>0</sup> 30'

Question Number : 82 Question Id : 6364313322 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is  
Question Mandatory : No Option Orientation : Vertical  
Correct Marks : 1 Wrong Marks : 0

The specific energy for rock chilling is lowest for\_\_\_\_\_

Options :

Rota1 Y diamond drilling

Tri-cone roller bit chilling

Percussive drilling

Jet piercing

Question Number : 83 Question Id : 6364313323 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is  
Question Mandatory : No Option Orientation : Vertical  
Correct Marks : 1 Wrong Marks : 0

In an experiment to study coal dust explosibility, it is found that at least 3.0 g of limestone dust should be added to a sample of 2.0 g of coal dust to ensure that propagation of flame does not take place. Then the explosibility index of coal dust is

Options :

0.66

0.5

0.33

1.5

Question Number : 84 Question Id : 6364313324 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical Correct Marks : 1 Wrong Marks : 0

A typical sand : water ratio (by volume) employed in a sand stowing plant in coal mines of India is

Options :

1. ✓ 1 : 2

3. ✗ 1 : 1

Question Number : 85 Question Id : 6364313325 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical Correct Marks : 1 Wrong Marks : 0 Burden is the distance between

Options :

Distance between two holes in a same row

Distance between face line and last row of the holes

Distance between the first row of hole and the face line

Diagonal distance between two of holes of adjacent rows

Question Number : 86 Question Id : 6364313326 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is  
Question Mandatory : No Option Orientation : Vertical  
Correct Marks : 1 Wrong Marks : 0

Super elevation is the tenn used for the design of

Options :

Benches

Haul roads

Dumps

✘ Slopes

Question Number : 87 Question Id : 6364313327 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is  
Question Mandatory : No Option Orientation : Vertical  
Correct Marks : 1 Wrong Marks : 0

The blasting technique used for controlled throw of overburden is known as

Options :

Cast blasting

Smooth blasting ✘

Cushion basting

Muffled blasting



Question Number : 88 Question Id : 6364313328 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical Correct Marks : 1 Wrong Marks : 0

Fly rocks can be controlled by

Options :

Secondary blasting Tracer

blasting

Muffled blasting

Cushion blasting

Question Number : 89 Question Id : 6364313329 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical Correct Marks : 1 Wrong Marks : 0

The purpose of a vane in an exhaust fan is to

Options :

To eliminate the recirculation of air

Convert part of static energy into useful kinetic energy

Increase the velocity of air leaving the fan

Convert part of kinetic energy into useful pressure energy

Question Number : 90 Question Id : 6364313330 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical Correct Marks : 1 Wrong Marks : 0

The process of crushing and grinding ore into smaller fragments is called

Options :

Fragmentation

Granulating

Pulverizing

Comminution

Question Number : 91 Question Id : 6364313331 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical Correct Marks : 1 Wrong Marks : 0

Which of the following is the ore of tungsten

Options :

Psilomelane

Argentite

Wolframite

## Cassiterite

Question Number : 92 Question Id : 6364313332 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical Correct Marks : 1 Wrong Marks : 0

\What are stratum contours in connection with coal mmes

Options :

Imaginary' line joining points of equal elevation selected on the surface

Imagmary line joining points of equal elevation selected along the floor of the coal seam

Imaginary line joining points of equal elevation selected along the roof of the coal seam

Imaginal Y line joining points of equal elevation selected along the middle of the coal seam

Question Number : 93 Question Id : 6364313333 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical Correct Marks : 1 Wrong Marks : 0

Three major steps involved in Mineral Processing in chronological order are

Options :

Liberation, separation and extraction

Crushing. glinding and flotation

Extraction, processing and smelting

Jigging, tabling and flotation

Question Number : 94 Question Id : 6364313334 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical Correct Marks : 1 Wrong Marks : 0

Which of the following are non-conventional energy resources

Options :

Thermal power plants

Hydro-electric power stations

Nuclear power plants

Solar energy cells

Question Number : 95 Question Id : 6364313335 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical Correct Marks : 1 Wrong Marks : 0

Which one of the following rocks has maximum compressive strength assuming there are no planes of weakness in the samples

Options :

Granite

Marble

Sandstone

coal

Question Number : 96 Question Id : 6364313336 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is  
Question Mandatory : No Option Orientation : Vertical  
Correct Marks : 1 Wrong Marks : 0

Two particles are called to be equal settling, if they are having same

Options :

Volume

Specific gravity

Tenninal velocities in the same fluid and in the same field of force

Shape and size

Question Number : 97 Question Id : 6364313337 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is  
Question Mandatory : No Option Orientation : Vertical Correct Marks : 1 Wrong Marks : 0

If a force greater than that of gravity is used to separate solids and fluids of different densities, the process is tenned as

Options :

1. Centrifugation

Flocculation

Flotation

Sedimentation

Question Number : 98 Question Id : 6364313338 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is  
Question Mandatory : No Option Orientation : Vertical Correct Marks : 1 Wrong Marks : 0

The study on washability of coal is carried out by using \_\_\_\_\_ technique

Options :

1. Heavy media separation

Sedimentation

Elutriation

Classification

Question Number : 99 Question Id : 6364313339 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is  
Question Mandatory : No Option Orientation : Vertical  
Correct Marks : 1 Wrong Marks : 0

Froth flotation is the most suitable for concentrating

Options :

Iron ores

Sulphide ores

Quanzite

Aluminium ores

Question Number : 100 Question Id : 6364313340 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical Correct Marks : 1 Wrong Marks : 0

The chemical that selectively binds to the surface of target mineral particles and imparts hydrophobicity and air bubble attachment in forth flotation process is called as

Options :

Activator

Depressant



Modifier

4..2 Collector

Question Number : 101 Question Id : 6364313341 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical Correct Marks : 1 Wrong Marks : 0

The process of separation of panicles of various sizes, shapes and densities by allowing them to settle in a fluid is called as

Options :

Classification

Froth flotation ✘

Thickening

Clafification

Question Number : 102 Question Id : 6364313342 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is  
Question Mandatory : No Option Orientation : Vertical  
Correct Marks : 1 Wrong Marks : 0

Capital gearing with reference to economics is the

Options :

Ratio of equity capital to promoters capital

✘

Ratio of loan capital to equity capital

Ratio of equity capital to loan capital

Ratio of profit eamed to capital employed

Question Number : 103 Question Id : 6364313343 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is  
Question Mandatory : No Option Orientation : Vertical  
Correct Marks : 1 Wrong Marks : 0

The system of maintaining business transactions in books is called as



Options :

Book keeping

Profit and loss statement

Balance sheet

Revenue and expenditure statement

Question Number : 104 Question Id : 6364313344 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is

Question Mandatory : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

The following is a liability as per accountancy

Options :

Goodwill of a company

Land and buildings owned by the company

Long term financing using issue of ordinary shares

Mining machinery owned by the company

Question Number : 105 Question Id : 6364313345 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is

Question Mandatory : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

The following is categorised as an asset for the company.

Options :

Labour costs

Mineral produced

Overhead of the company

Share premium

Question Number : 106 Question Id : 6364313346 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is  
Question Mandatory : No Option Orientation : Vertical  
Correct Marks : 1 Wrong Marks : 0

The following is a method of computing depreciation

Options :

EBIDTA

Budgetary control

Fictitious depreciation

Sinking fund method

Question Number : 107 Question Id : 6364313347 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is  
Question Mandatory : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Salting of an ore is done by

Options :

Adding common salt to the sample

By removing salt from the ore

By mixing substances for increasing the values in the ore samples

By mixing substances for lowering the values in the ore samples

Question Number : 108 Question Id : 6364313348 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical Correct Marks : 1 Wrong Marks : 0

The horizontal angle of line that is measured from the reference meridian in clockwise direction is known as

Options :

Zenith

Declination

Nadir

Azimuth

Question Number : 109 Question Id : 6364313349 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical Correct Marks : 1 Wrong Marks : 0 Coning and quartering is

Options :

A mining method employed in unconsolidated ground

A mining method employed for diamond mining

A method employed for obtaining laboratory sample from the field

A cut and fill method employed in underground metal mining

Question Number : 110 Question Id : 6364313350 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is  
Question Mandatory : No Option Orientation : Vertical  
Correct Marks : 1 Wrong Marks : 0

Powered roof supports are used

Options :

In development of tunnels

In shaft sinking

In mechanised LW mining

In development board & pillar working

Question Number : 111 Question Id : 6364313351 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is  
Question Mandatory : No Option Orientation : Vertical  
Correct Marks : 1 Wrong Marks : 0

The tangential stresses acting on principal planes is equivalent to

Options :

Average of maximum and minimum principal stresses

✘ The difference of maximum and minimum principal stresses

Zero

Sum of maximum and minimum principal stresses

Question Number : 112 Question Id : 6364313352 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is  
Question Mandatory : No Option Orientation : Vertical  
Correct Marks : 1 Wrong Marks : 0

If principal stresses,  $\sigma_1$  and  $\sigma_2$  act on two mutually perpendicular planes, then the normal stress acting on a plane  $45^\circ$  to these planes is equivalent to

Options :

$$(\sigma_1 + \sigma_2) / 2$$

$$(\sigma_1 - \sigma_2) / 2$$

zero

$$4 (61^2 - 62^2) / 2$$

Question Number : 113 Question Id : 6364313353 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical Correct Marks : 1 Wrong Marks : 0

Identify the wrong statement from the following.

Options :

Principal plane is a plane on which shear stress is zero

The maximum and minimum shear planes are not free of normal stresses

Other than principal planes, on all planes the tangential stresses will be acting

In hydrostatic stress condition, the principal stresses,  $\sigma_1 \neq \sigma_2 \neq \sigma_3$

Question Number : 114 Question Id : 6364313354 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical Correct Marks : 1 Wrong Marks : 0

The relationship between Young's modulus (E), Bulk Modulus (K) and Poisson's ratio ( $\nu$ ) is given by

Options :

1. ✘  $E = 2K(1 - 2\nu)$

2. ✔  $E = 3K(1 - 2\nu)$

3. ✘  $E = 2K(1 + 2\nu)$

4. ✘  $E = 3K(1 + 2\nu)$

Question Number : 115 Question Id : 6364313355 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical Correct Marks : 1 Wrong Marks : 0

The machine used for removing well fragmented overburden material from above a coal seam and dumping it directly on the previously de-coaled area is known as

Options :

Dragline

Shovel

Bucket wheel excavator

Spreader

Question Number : 116 Question Id : 6364313356 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical Correct Marks : 1 Wrong Marks : 0

The machine suitable for excavating soft and non-sticky material in large quantities is known as

Options :

Shovel

✘ Dragline

Bucket wheel excavator

Surface miner

Question Number : 117 Question Id : 6364313357 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is  
Question Mandatory : No Option Orientation : Vertical  
Correct Marks : 1 Wrong Marks : 0

Identify the wrong statement with reference to rock burst in the following

Options :

Rock burst is accompanied by sudden and violent failure of rocks

Coarse texture rocks are more prone for rock bursts

Rock burst increases with depth of mining

The occurrence of rock burst is high in strong rocks

Question Number : 118 Question Id : 6364313358 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is  
Question Mandatory : No Option Orientation : Vertical  
Correct Marks : 1 Wrong Marks : 0

Circular slope failure occurs at the following places

Options :

Hard and consolidated dry strata

In a bedded strata



✘ Water bearing hard strata

In loose and unconsolidated strata

Question Number : 119 Question Id : 6364313359 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is  
Question Mandatory : No Option Orientation : Vertical  
Correct Marks : 1 Wrong Marks : 0

Multi-point borehole extensometers are used to determine

Options :

Bed separation above the roof of mine openings

The magnitude of floor heaving

Radial deformations of borehole walls

To measure the deformation of rock sample in the laboratory

Question Number : 120 Question Id : 6364313360 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is  
Question Mandatory : No Option Orientation : Vertical Correct Marks : 1 Wrong Marks : 0

The stoping method where a large part of blasted ore is allowed to accumulate for the purpose of providing working platform for stoping as well as to support the wall rock is known as

Options :

Shrinkage stoping

Cut and fill stoping

Sub-level stoping

Vcr stoping