



Question Paper Name: 5276 Online Refresher course in Earth Science and Allied 30th June 2019 Shift 1  
Subject Name: Online Refresher course in Earth Science and Allied  
Creation Date: 2019-06-30 13:01:43  
Duration: 180  
Total Marks: 150  
Display Marks: Yes

Online Refresher course in Earth Science and Allied

Group Number : 1  
Group Id : 489994199  
Group Maximum Duration : 0  
Group Minimum Duration : 120  
Revisit allowed for view? : No  
Revisit allowed for edit? : No  
Break time: 0  
Group Marks: 150

Online Refresher course in Earth Science and Allied

Section Id : 489994255  
Section Number : 1  
Section type : Online  
Mandatory or Optional: Mandatory  
Number of Questions: 150  
Number of Questions to be attempted: 150  
Section Marks: 150  
Display Number Panel: Yes  
Group All Questions: No

Sub-Section Number: 1  
Sub-Section Id: 489994279  
Question Shuffling Allowed : Yes

Question Number : 1 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

**Processing of rock samples to separate the microfossils from the matrix**

- (a) is same for all types of microfossils  
(b) is different for different types of microfossils  
(c) Depends on type of matrix  
(d) Both (b) and (c)

Options :

1. 1  
2. 2  
3. 3

Question Number : 2 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

**Pteropods are tiny marine winged gastropods with \_\_\_\_\_ tests**

- (a) Calcitic
- (b) Aragonitic
- (c) Siliceous
- (d) Phosphatic

Options :

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

Question Number : 3 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

**Which of the following is the component of groundwater recharge structure?**

- (a) Filter Chamber
- (b) Lithological Chart
- (c) Drainage
- (d) Reservoir

Options :

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

Question Number : 4 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

**Which of the following structure is suitable in hilly region?**

- (a) Pond
- (b) Recharge Shaft
- (c) Recharge Well
- (d) Gabbion

Options :

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

Question Number : 5 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

**Subsurface dam/dyke is useful for arresting the**

- (a) Surface run-off
- (b) Base flow
- (c) Soil moisture
- (d) Surface and groundwater run-off

Options :

- 1. 1

3. 3

4. 4

Question Number : 6 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

**Percolation Tank is constructed to**

- (a) Conserve the water
- (b) Accelerate the groundwater recharge
- (c) Improve the soil moisture
- (d) To enhance the surface water resource

Options :

1. 1

2. 2

3. 3

4. 4

Question Number : 7 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

**Piezometer is constructed to monitor the**

- (a) Groundwater run-off
- (b) Groundwater level
- (c) Surface water level
- (d) Soil moisture

Options :

1. 1

2. 2

3. 3

4. 4

Question Number : 8 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

**Permissible limit of Arsenic in groundwater is**

- (a) 10ppm
- (b) 50ppm
- (c) 10ppb
- (d) 50ppb

Options :

1. 1

2. 2

3. 3

4. 4

Question Number : 9 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

- of arsenic in groundwater is
- (a) Hematite
  - (b) Chalcopyrite
  - (c) Arsenopyrite
  - (d) Zincite

Options :

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

Question Number : 10 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

**Source of nitrate in groundwater is**

- (a) Industrial effluents
- (b) Sewer
- (c) Mineral
- (d) Rock

Options :

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

Question Number : 11 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

**Which element contamination in groundwater affects the maximum habitation?**

- (a) Aluminum
- (b) Arsenic
- (c) Cadmium
- (d) Iron

Options :

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

Question Number : 12 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

**Which element is closely associated with Arsenic?**

- (a) Copper
- (b) Iron
- (c) Cadmium
- (d) Lead

Options :

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

Correct Marks : 1 Wrong Marks : 0

[www.FirstRanker.com](http://www.FirstRanker.com)[www.FirstRanker.com](http://www.FirstRanker.com)**Any groundwater unit is declared as overexploited if decline in groundwater level is**

- (a) 5cm/year
- (b) 10cm/year
- (c) 20-25cm/year
- (d) > 25cm/year

Options :

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

Question Number : 14 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

**To mitigate the groundwater depletion problem, which attempt is needed?**

- (a) Canal Irrigation
- (b) Groundwater withdrawal
- (c) Pumping
- (d) Artificial Recharge to Groundwater

Options :

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

Question Number : 15 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

**If the rate of drawdown in groundwater is increased by 01 meter, the consumption of electricity by pump is increased by**

- (a) 0.2KW/hour
- (b) 1.0KW/hour
- (c) 0.4KW/hour
- (d) 0.6KW/hour

Options :

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

Question Number : 16 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

**Groundwater salinity in coastal area is influenced by**

- (a) High evaporational loss
- (b) Lower Precipitation
- (c) Saline Soil
- (d) Saline water intrusion

Options :

- 1. 1
- 2. 2
- 3. 3

Question Number : 17 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

**Semi-arid area in India is characterized by**

- (a) Good aquifer and higher precipitation
- (b) Poor aquifer with higher precipitation
- (c) Good aquifer with poor precipitation
- (d) Poor aquifer with poor precipitation

Options :

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

Question Number : 18 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

**Groundwater legislations made by Govt. of India can be implemented by**

- (a) Central Govt.
- (b) State Govt.
- (c) Both State and Central Govt.
- (d) None of above

Options :

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

Question Number : 19 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

**If the absorption of electromagnetic radiation by matter results in the emission of radiation of same or longer wavelengths for a short time, the phenomenon is termed as ...**

- (a) Luminescence
- (b) Fluorescence
- (c) Phosphorescence
- (d) Spontaneous emission

Options :

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

Question Number : 20 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

**Measurement of intensity of fluorescent X-rays provide a simple and \_\_\_\_\_ way of \_\_\_\_\_ analysis**

- (a) Destructive, quantitative
- (b) Non-destructive, quantitative
- (c) Destructive, qualitative
- (d) Non-destructive, qualitative

Options :

2. 2  
3. 3  
4. 4

Question Number : 21 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

**Energy of the emitted X-rays depends upon the \_\_\_\_\_ of the atom and their intensity depends upon the \_\_\_\_\_**

- (a) Atomic number, amount of sample
- (b) Mass number, amount of sample
- (c) Mass number, concentration of atoms
- (d) Atomic number, concentration of atoms

Options :

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

Question Number : 22 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

**In Wavelength-dispersive X-ray spectroscopy (WDXS or WDS) \_\_\_\_\_ of characteristic x-rays is measured**

- (a) Wavelength
- (b) Energy
- (c) Both wavelength and energy
- (d) Only counts

Options :

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

Question Number : 23 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

**XRF is a basic technique which can determine \_\_\_\_\_ in the sample.**

- (a) Elements
- (b) Compounds
- (c) Both elements and compound
- (d) Molecules

Options :

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

Question Number : 24 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

- (b) Archaean from Proterozoic  
(c) Proterozoic from Palaeozoic  
(d) Archaean from Phanerozoic

Options :

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

Question Number : 25 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

**Point bar deposit is associated with**

- (a) Braided River  
(b) Estuary  
(c) Meandering River  
(d) Beach

Options :

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

Question Number : 26 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

**Polymetallic nodules on the ocean floor contain significant amounts of:**

- (a) Cu-Ni-Co  
(b) Pb-Zn-Ti  
(c) Hg-Mo-Pt  
(d) U-Th-Nb

Options :

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

Question Number : 27 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

**During its orbital motion around the Sun, Earth is nearest to the Sun on**

- (a) March 21  
(b) July 4  
(c) September 23  
(d) January 3

Options :

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

**Four basic points on compass are classified as**

- (a) Northings
- (b) Cardinal points
- (c) Legend points
- (d) Eastings

Options :

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

Question Number : 29 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

**PH values for natural water lies between**

- (a) 4-7
- (b) 0-4
- (c) 4-9
- (d) 2-7

Options :

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

Question Number : 30 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

**Radiometric age is often referred to as \_\_\_\_\_ age.**

- (a) Total
- (b) Absolute
- (c) Historic
- (d) Geologic

Options :

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

Question Number : 31 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

**Which of the following is used to determine the relative ages in a rock sequence?**

- (a) Stratigraphy
- (b) Fossils
- (c) Cross-cutting relationships
- (d) All of these

Options :

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

Correct Marks : 1 Wrong Marks : 0

**Which of the following will not make a fossil?**

- (a) Decomposed organic material
- (b) Plant impressions (casts)
- (c) Animal footprints
- (d) Loose animal bones

Options :

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

Question Number : 33 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

**Which of the following isotope is most useful for dating very young wood and charcoal?**

- (a) Rubidium-87
- (b) Potassium-40
- (c) Carbon-14
- (d) Uranium-238

Options :

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

Question Number : 34 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

**The radon environmental hazard is associated with the radioactive decay of \_\_\_\_\_**

- (a) Rubidium-87
- (b) Potassium-40
- (c) Carbon-14
- (d) Uranium-238

Options :

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

Question Number : 35 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

**The Paleozoic does not include the**

- (a) Ordovician
- (b) Jurassic
- (c) Mississippian
- (d) Permian

Options :

- 1. 1
- 2. 2
- 3. 3

Question Number : 36 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

**Full Form of GPS is**

- (a) Global Positioning System
- (b) Global Pointing System
- (c) Global Pension System
- (d) Global Posting System

Options :

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

Question Number : 37 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

**What is the number of GPS satellites used?**

- (a) 54
- (b) 12
- (c) 05
- (d) 24

Options :

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

Question Number : 38 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

**How many planets are there in our solar system?**

- (a) Eight
- (b) Nine
- (c) Ten
- (d) Eleven

Options :

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

Question Number : 39 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

**Plane table is made of:**

- (a) Metal
- (b) Rubber
- (c) Wood
- (d) Plastic

Options :

- 1. 1

3. 3

4. 4

Question Number : 40 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

**Plane table surveying is a \_\_\_\_\_ method.**

- (a) Graphical
- (b) Linear
- (c) Circular
- (d) Angular

Options :

1. 1

2. 2

3. 3

4. 4

Question Number : 41 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

**Which of the below is used for levelling a plane table?**

- (a) Plumb bob
- (b) Spirit level
- (c) Compass
- (d) U-frame

Options :

1. 1

2. 2

3. 3

4. 4

Question Number : 42 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

**Structure or form which depicts leaf-like sheets is**

- (a) Fibrous
- (b) Lamellar
- (c) Radiating
- (d) Granular

Options :

1. 1

2. 2

3. 3

4. 4

Question Number : 43 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

- (a) Lamellar  
(b) Foliated  
(c) Fibrous  
(d) Radiating

Options :

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

Question Number : 44 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

**Chromite shows which type of structure?**

- (a) Granular  
(b) Globular  
(c) Reniform  
(d) Mammillary

Options :

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

Question Number : 45 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

**Which form resembles human kidney?**

- (a) Globular  
(b) Reniform  
(c) Granular  
(d) Mammillary

Options :

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

Question Number : 46 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

**Trenching is done:**

- (a) Parallel to the strike of the ore body.  
(b) Across the strike of the ore body.  
(c) Diagonal to the strike of the ore body.  
(d) In any possible direction.

Options :

1. 1  
2. 2  
3. 3

Question Number : 47 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

**Baramulla tree (cat stemma commune) is a valuable indicator for:**

- (a) Fe.
- (b) Cu-Mo.
- (c) U.
- (d) Mn-Fe.

Options :

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

Question Number : 48 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

**In a virgin area where copper is expected, which method is used to start prospecting:**

- (a) Geobotanical.
- (b) Geophysical.
- (c) Geochemical.
- (d) Drilling

Options :

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

Question Number : 49 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

**Which one is the main constituent of gaseous formations of petroleum?**

- (a) Methane.
- (b) Ethane.
- (c) Propane.
- (d) Butane.

Options :

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

Question Number : 50 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

**Biogeochemical method of exploration include the:**

- (a) Chemical analysis of elements in vegetation.
- (b) Chemical analysis of underlying soils.
- (c) Chemical analysis of elements in vegetation and its underlying soils.
- (d) Analysis of biological characters of the soil.

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

Question Number : 51 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

**Churn drill is a type of:**

- (a) Percussion drilling.
- (b) Rotary drilling.
- (c) Jet drilling.
- (d) None of these.

Options :

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

Question Number : 52 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

**The purpose of the mud employed during drilling operation is /are:**

- (a) To seal any water bearing formation.
- (b) To prevent the bore hole walls from collapsing.
- (c) To keep cool the drilling bit.
- (d) All the above are correct.

Options :

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

Question Number : 53 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

**Term "Isostasy" was first proposed by**

- (a) Sir George Airy
- (b) Clarence Dutton
- (c) R.A. Daly
- (d) Archdeacon Pratt

Options :

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

Question Number : 54 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

- (a) Yardang
- (b) Potholes
- (c) Arete
- (d) Cuesta

Options :

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

Question Number : 55 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

**Beryl is commercially known as**

- (a) Emerald
- (b) Ruby
- (c) Peridot
- (d) Moonstone

Options :

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

Question Number : 56 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

**What is the full form of XRD?**

- (a) X-ray powder diffraction
- (b) X-ray diffraction
- (c) X-ray differentiation
- (d) X-ray detection

Options :

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

Question Number : 57 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

**Use of XRD in the Earth Science is to**

- (a) Determine Elemental composition
- (b) Determine Mineralogical composition
- (c) Determine Chemical composition
- (d) Determine Biological composition

Options :

- 1. 1
- 2. 2
- 3. 3

Question Number : 58 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

**To determine hardness of a mineral, scientists use**

- (a) Perl's Scale
- (b) Richter Scale
- (c) Mohs Hardness Scale
- (d) Andy's Proficient Hardness Testing Scale

Options :

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

Question Number : 59 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

**A crystal's shape is determined by the**

- (a) Position of Atoms
- (b) Arrangement of Atoms
- (c) Vibration of Atoms
- (d) Collision of Atoms

Options :

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

Question Number : 60 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

**Minerals contain maximum of**

- (a) 80 Naturally Occurring Elements
- (b) 92 Naturally Occurring Elements
- (c) 100 Naturally Occurring Elements
- (d) 108 Naturally Occurring Elements

Options :

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

Question Number : 61 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

- (a) Metallic Luster  
(b) Submetallic Luster  
(c) Nonmetallic Luster  
(d) Polymetallic Luster

Options :

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

Question Number : 62 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

**Mineral's resistance to being scratched is called**

- (a) Fracture  
(b) Cleavage  
(c) Streak  
(d) Hardness

Options :

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

Question Number : 63 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

**Rocks are made of**

- (a) Mineral  
(b) Cement  
(c) Ash powder  
(d) Concrete

Options :

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

Question Number : 64 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

**Value of most gemstones depend on their**

- (a) Appearance  
(b) Shape  
(c) Colour  
(d) Streak

Options :

1. 1  
2. 2  
3. 3

Question Number : 65 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

**Specific gravity of gold is**

- (a) 13
- (b) 15
- (c) 17
- (d) 19

Options :

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

Question Number : 66 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

**Metallic minerals are good conductors of**

- (a) Heat Only
- (b) Electricity Only
- (c) Heat & Electricity both
- (d) Light & sound both

Options :

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

Question Number : 67 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

**An example of silicate minerals could be**

- (a) Quartz
- (b) Oxides
- (c) Halides
- (d) Sulfates

Options :

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

Question Number : 68 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

- (a) 6
- (b) 8
- (c) 9
- (d) 10

Options :

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

Question Number : 69 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

**One carat is equal to**

- (a) 2 grams
- (b) 200 grams
- (c) 2 milligrams
- (d) 200 milligrams

Options :

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

Question Number : 70 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

**One of most important gemstone is**

- (a) Gold
- (b) Silver
- (c) Diamond
- (d) Silicon

Options :

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

Question Number : 71 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

**The concentration of carbon dioxide in the atmosphere is in the range of**

- (a) 1-10 parts per million
- (b) 10-100 parts per million
- (c) 100-1000 parts per million
- (d) 1000-10,000 parts per million

Options :

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

Correct Marks : 1 Wrong Marks : 0

**Spacing of contour lines depend on**

- (a) steepness
- (b) altitude
- (c) area
- (d) elevation

Options :

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

Question Number : 73 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

**Contour lines that cross a valley or stream are**

- (a) dotted
- (b) solid
- (c) V-shaped
- (d) U-shaped

Options :

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

Question Number : 74 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

**In X-ray spectrometers, the specimen or sample is placed after**

- (a) X-ray tube
- (b) Monochromator
- (c) Collimator
- (d) Detector

Options :

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

Question Number : 75 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

**The study which deals with behaviour of rocks under applied forces is called**

- (a) Soil mechanics
- (b) Rock mechanics
- (c) Lithology
- (d) Geology

Options :

- 1. 1
- 2. 2

Question Number : 76 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

**Which material can be used as a roofing material among the following?**

- (a) Slate
- (b) Granite
- (c) Marble
- (d) Gneiss

Options :

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

Question Number : 77 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

**In urban area the most feasible groundwater recharge structure is**

- (a) Percolation Tank
- (b) Recharge well and Recharge Shaft
- (c) Gabbion Structure
- (d) Check Dams

Options :

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

Question Number : 78 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

**In rural area, which is not suitable and durable groundwater recharge structure**

- (a) Conservation Pond
- (b) Recharge well and Recharge Shaft
- (c) Contour Bunds
- (d) Check Dams

Options :

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

Question Number : 79 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

**Which is the component of ground water recharge structure**

- (a) Filter Chamber
- (b) Lithological Chart
- (c) Drainage
- (d) Reservoir

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

Question Number : 80 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

**Following structure is suitable in hilly region**

- (a) Pond
- (b) Recharge Shaft
- (c) Recharge Well
- (d) Gabbion

Options :

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

Question Number : 81 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

**Subsurface dam/dyke is useful because it arrests the**

- (a) Surface run-off
- (b) Base flow
- (c) Soil moisture
- (d) Surface and groundwater run-off

Options :

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

Question Number : 82 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

**The source of arsenic in groundwater is**

- (a) Heamatite
- (b) Chalcopryrite
- (c) Arsenopyrite
- (d) Zincite

Options :

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

Question Number : 83 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Concentration of nitrate in groundwater is  
(a) Industrial effluents  
(b) Sewer  
(c) Mineral  
(d) Rock

Options :

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

Question Number : 84 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

**Acid treatment is required before analysis of following**

- (a) Iron
- (b) Calcium
- (c) Magnesium
- (d) Sodium

Options :

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

Question Number : 85 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

**The most suitable instrument for trace and rare earth elements analysis of water is**

- (a) Atomic Absorption Spectrophotometer
- (b) Mass Spectrophotometer
- (c) Flame Photometer
- (d) Spectrophotometer

Options :

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

Question Number : 86 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

**The higher concentration of arsenic in groundwater poses following health hazards**

- (a) Fluorosis
- (b) Gastrointestinal problem
- (c) Skin Cancer
- (d) Osteoporosis

Options :

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

Correct Marks : 1 Wrong Marks : 0

**any groundwater unit is declared as overexploited if decline in groundwater level is**

- (a) 5cm/year
- (b) 10cm/year
- (c) 20-25cm/year
- (d) > 25cm/year

Options :

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

Question Number : 88 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

**to mitigate the problem of groundwater depletion, the following attempt is needed**

- (a) Canal Irrigation
- (b) Groundwater withdrawal
- (c) Water Conservation
- (d) Artificial Recharge to Groundwater

Options :

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

Question Number : 89 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

**if the rate of drawdown in groundwater is increased by 01meter, the consumption of electricity by pump is increased by**

- (a) 0.2KW/hour
- (b) 1.0KW/hour
- (c) 0.4KW/hour
- (d) 0.6KW/hour

Options :

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

Question Number : 90 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

**Groundwater salinity in coastal area is influenced by**

- (a) High evaporational loss
- (b) Lower Precipitation
- (c) Saline Soil
- (d) Saline water intrusion

Options :

- 1. 1

3. 3

4. 4

Question Number : 91 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

**Semi-arid area in India is characterised by**

- (a) Good aquifer and higher precipitation
- (b) Poor aquifer with higher precipitation
- (c) Good aquifer with poor precipitation
- (d) Poor aquifer with poor precipitation

Options :

1. 1

2. 2

3. 3

4. 4

Question Number : 92 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

**What is the study of past life using fossils?**

- (a) paleontology
- (b) uniformitarianism
- (c) modern geology
- (d) catastrophism

Options :

1. 1

2. 2

3. 3

4. 4

Question Number : 93 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

**How are rock layers arranged in the geologic column?**

- (a) oldest rocks are on the bottom
- (b) youngest rocks are on the bottom
- (c) youngest rocks are in the middle
- (d) oldest rocks are on the top

Options :

1. 1

2. 2

3. 3

4. 4

Question Number : 94 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

**What is amber?**

- (a) wet, sticky tree sap
- (b) an insect's body
- (c) hardened tree sap
- (d) a hard shell

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

Question Number : 95 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

**Which of the following is an example of a trace fossil?**

- (a ) a frozen mammoth
- (b) Preserved footprints
- (c) mould and cast
- (d) Hardened tree sap

Options :

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

Question Number : 96 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

**Which kind of temperatures will slow down an organism's decay?**

- (a) freezing temperatures
- (b) hot temperatures
- (c) warm temperatures in a wet climate
- (d) cool temperatures

Options :

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

Question Number : 97 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

**Bird's fossils are very rare because of:**

- (a) Hollow bones
- (b) Flying characters
- (c) Very high weight
- (d) Both (a) and (b)

Options :

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

Question Number : 98 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

- (b) Ordovician  
(c) Permo-carboniferous  
(d) Jurassic cretaceous.

Options :

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

Question Number : 99 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

**Stromatolites are preserved only in:**

- (a) Shale  
(b) Sandstones  
(c) Carbonates  
(d) Coal.

Options :

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

Question Number : 100 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

**Which period is known as age of fish?**

- (a) Carboniferous  
(b) Permian  
(c) Devonian  
(d) Triassic

Options :

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

Question Number : 101 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

**Which one is most famous for fossils vertebrate in India:**

- (a) Aravallis  
(b) Wndhyans  
(c) Siwalik  
(d) All the above.

Options :

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

Correct Marks : 1 Wrong Marks : 0

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- (a) micro waves
- (b) visible waves
- (c) ultraviolet wave
- (d) Beyond the red part of the visible waves

Options :

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

Question Number : 103 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

**The Infra- red spectrum consists of wave**

- (a) Shorter than those of visible light
- (b) Longer than those of visible light
- (c) Equal to that of visible light
- (d) None of the above is correct

Options :

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

Question Number : 104 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

**Out of the following which one has the longest wave length**

- (a) Ultraviolet light
- (b) x ray
- (c) Infra-red rays
- (d) Gamma ray

Options :

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

Question Number : 105 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

**The range of visible light lies between**

- (a) 4000A and 7800A
- (b) 3000A and 700A
- (c) 5800A and 7200A
- (d) 7800A and 9372A

Options :

- 1. 1
- 2. 2
- 3. 3

Question Number : 106 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

**Aeroplane which takes aerial photographs generally fly in**

- (a) Toposphere
- (b) Stratosphere
- (c) Ionospheres
- (d) exosphere

Options :

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

Question Number : 107 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

**What is the compressive strength of bone?**

- (a) 150 MPa
- (b) 400 MPa
- (c) 500 MPa
- (d) 2400 MPa

Options :

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

Question Number : 108 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

**Which material has tensile strength higher than compressive strength?**

- (a) Alumina
- (b) Silica
- (c) Cast iron
- (d) Fiber glass

Options :

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

Question Number : 109 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

**What is the approximate ratio of tensile strength to compressive strength for most of the ceramics?**

- (a) 1:1
- (b) 1:5
- (c) 1:10
- (d) 1:20

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

Question Number : 110 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

**What is the compressive strength of silicon nitride?**

- (a) 500 MPa
- (b) 900 MPa
- (c) 2400 MPa
- (d) 3000 MPa

Options :

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

Question Number : 111 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

**Which statement is false?**

- (a) Metals have a compressive strength ranging from 100 to 1500 MPa
- (b) Ceramics have a compressive strength ranging from 1000 to 5000 MPa
- (c) Concrete is stronger in compression than in tension
- (d) Concrete is reinforced with materials which provide better compressive properties

Options :

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

Question Number : 112 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

**For \_\_\_\_\_ value of a rate of loading, the value of strength comes out to be \_\_\_\_\_**

- (a) Lower, lower
- (b) Lower, higher
- (c) Any, same
- (d) Any, different independent of a rate of loading

Options :

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

Question Number : 113 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

- (a) N  
(b) N/mm  
(c) N/mm  
(d) Nmm

Options :

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

Question Number : 114 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

**Which one of the following is a deep-sea drilling research vessel?**

- (a) ORV SagarKanya  
(b) RV Sindhu Sadhana  
(c) RV Sindhu Sankalp  
(d) Chikyu

Options :

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

Question Number : 115 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

**A solid circular shaft of diameter  $d$  is subjected to a torque  $T$ . the maximum normal stress induced in the shaft is**

- (a) Zero  
(b)  $16T/\pi d$   
(c)  $32T/\pi d$   
(d) None of the mentioned

Options :

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

Question Number : 116 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

**When a rectangular beam is loaded transversely, the maximum compressive stress develops on**

- (a) Bottom fibre  
(b) Top fibre  
(c) Neutral axis  
(d) Every cross-section

Options :

1. 1  
2. 2

Question Number : 117 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

**Planktonic foraminifera first evolved during \_\_\_\_ times.**

- (a) Devonian
- (b) Triassic
- (c) Jurassic
- (d) Cretaceous

Options :

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

Question Number : 118 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

**Strength of concrete increase with \_\_\_\_\_**

- (a) Increase with w/c ratio
- (b) Decrease with w/c ratio
- (c) Decrease in size of aggregates
- (d) Decrease in curing time

Options :

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

Question Number : 119 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

**The basic igneous rock which is dark coloured and has been extensively used as road materials is**

- (a) Granite
- (b) Gabbro
- (c) Basalt
- (d) Syenite

Options :

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

Question Number : 120 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Options :

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

Question Number : 121 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

**Limestone can be used as facing stones at situations where**

- (a) Air is polluted with industrial gases
- (b) Along sea coasts where sea water-rich winds can attack them
- (c) Less chemical exposure and mild weather
- (d) The place has very harsh weather

Options :

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

Question Number : 122 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

**An element that is naturally radioactive is**

- (a) Argon
- (b) Xenon
- (c) Helium
- (d) Radium

Options :

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

Question Number : 123 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

**Which is non – radiogenic Lead**

- (a)  $^{208}\text{Pb}$
- (b)  $^{207}\text{Pb}$
- (c)  $^{204}\text{Pb}$
- (d)  $^{208}\text{Pb}$

Options :

1. 1
2. 2

Question Number : 124 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

**For dating recent Alluvium and also the method which is of interest to Archeologist is**

- (a) K-Ar
- (b) Pb-Pb
- (c) Rb-Sr
- (d)  $^{14}\text{C}$

Options :

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

Question Number : 125 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

**Atmospheric pressure distribution is represented by**

- (a) Isobars
- (b) Isotherms
- (c) Isohyet
- (d) Isothel

Options :

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

Question Number : 126 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

**Hydrogen, Deuterium and Tritium are**

- (a) Isomers of hydrogen
- (b) Isotopes of hydrogen
- (c) Isobars of hydrogen
- (d) Allotropes of hydrogen

Options :

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

Question Number : 127 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

If the following is true in case of pure water:

- (a)  $[H^+] > [OH^-]$   
 (b)  $[H^+] < [OH^-]$   
 (c)  $[H^+] < [OH^-] > 1.10^{-7}$   
 (d)  $[H^+] = [OH^-]$

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Options :

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

Question Number : 128 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

**A total station is a combination of;**

- (a) EDM and Theodolite  
 (b) Compass and EDM  
 (c) Electronic Theodolite and EDM  
 (d) EDM and electronic Compass

Options :

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

Question Number : 129 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

**Which unit in total station processes data collected?**

- (a) Data collector  
 (b) EDM  
 (c) Storage system  
 (d) Microprocessor

Options :

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

Question Number : 130 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

**The bubble in total station is centralised using;**

- (a) Tripod  
 (b) Levelling screw  
 (c) Tangent screw  
 (d) Foot screw

Options :

1. 1
2. 2

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Question Number : 131 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

**The three types of rocks are**

- (a) Weathering, erosion, deposition
- (b) Metamorphic, sedimentary, deposition
- (c) Igneous, sedimentary, metamorphic
- (d) Sedimentary, deposition, igneous

Options :

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

Question Number : 132 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

**TIN stands for**

- (a) Traffic Internet Network
- (b) Triangulated Irregular Network
- (c) Temporal Interest Network
- (d) Temperature Interface Node

Options :

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

Question Number : 133 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

**DBMS stands for**

- (a) Database Management System
- (b) Database Monitoring System
- (c) Database Manufacturing System
- (d) Database Mixing Station

Options :

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

Question Number : 134 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

**Which of the following is a biodegradable organic chemical/substance?**

- (a) Plastics
- (b) Oils
- (c) Pesticides
- (d) Garbage

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

Question Number : 135 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

**Septic tank is:**

- (a) An aerobic attached growth treatment system
- (b) An aerobic suspended growth biological treatment system
- (c) An anaerobic attached growth biological treatment system
- (d) An anaerobic suspended growth treatment system

Options :

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

Question Number : 136 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

**Total dissolved solids (TDS) can be reduced by the following method**

- (a) Distillation
- (b) Reverse osmosis
- (c) Ion exchange
- (d) All of the above

Options :

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

Question Number : 137 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

**Permanent hardness is caused due to**

- (a) Magnesium carbonate
- (b) Magnesium bicarbonate
- (c) Magnesium sulphate
- (d) All of the above

Options :

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

Question Number : 138 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0



- (b) 60
- (c) 90
- (d) 120

Options :

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

Question Number : 139 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

**The source of Arsenic in water is**

- (a) Industrial waste
- (b) Fertilizers
- (c) Phosphate rocks
- (d) All of the above

Options :

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

Question Number : 140 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

**The atmospheric loss of water from plant is**

- (a) Precipitation
- (b) Infiltration
- (c) Condensation
- (d) Evapotranspiration

Options :

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

Question Number : 141 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

**..... indicate regions of groundwater recharge and.....associated with groundwater discharge:**

- (a) Concave contours / Convex contours.
- (b) Convex contours/ Concave contours.
- (c) Concave contours/ Concave contours.
- (d) Convex contours/ convex contours

Options :

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

**Groundwater is a source of trouble at which place?**

- (a) Plains
- (b) Slopes
- (c) Rivers
- (d) Lakes

Options :

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

Question Number : 143 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

**Which is the first state in India to make roof top rain water harvesting compulsory to all the houses?**

- (a) Tamil Nadu
- (b) Kerala
- (c) Assam
- (d) Goa

Options :

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

Question Number : 144 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

**Which of the following is the major source of fresh water which is available in India?**

- (a) Ocean water
- (b) River water
- (c) Pond water
- (d) Ground water

Options :

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

Question Number : 145 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

**The infiltration of water into the subsurface is the \_\_\_\_\_**

- (a) influent
- (b) effluent
- (c) discharge
- (d) recharge

Options :

- 1. 1
- 2. 2

Question Number : 146 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

**The most abundant, natural acid is:**

- (a) Nitric
- (b) hydrochloric
- (c) carbonic
- (d) citric

Options :

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

Question Number : 147 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

**Water that is good enough to drink is called \_\_\_\_\_**

- (a) Potable water
- (b) Groundwater
- (c) Surface water
- (d) Artesian water

Options :

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

Question Number : 148 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

**Contaminated rainwater is result of**

- (a) higher soil moisture
- (b) poor sewerage system
- (c) air pollution
- (d) noise pollution

Options :

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

Question Number : 149 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

**Which of the following is true about pH?**

- (a) the scale runs 0-21
- (b) level 9 is acidic
- (c) level 4 is considered base
- (d) level 7 is best for stream water

Options :

2. 2  
3. 3  
4. 4

Question Number : 150 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

**Pteropods are tiny marine winged gastropods with \_\_\_\_\_ tests**

- (a) Calcitic
- (b) Aragonitic
- (c) Siliceous
- (d) Phosphatic

Options :

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

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