

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 :

Environmental Management 13th June 2024
Shift 1

Subject Name :

Environmental Management

Creation Date :

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Duration :

120

Total Marks :

120

Display Marks:

Yes

Share Answer Key With Delivery Engine :

Yes

Actual Answer Key :

Yes

Change Font Color :

No

Change Background Color :

No

Change Theme :

No

Help Button :

No

Show Reports :

No

Show Progress Bar :

No

Environmental Management

Group Number :

1

Group Id :

38382346

Group Maximum Duration :

0

Group Minimum Duration :

120

Show Attended Group? :

No

Edit Attended Group? :

No

Break time :

0

Group Marks :

120

Mathematics

Section Id :

383823122

Section Number :

1

Section type :

Online

Mandatory or Optional :

Mandatory

Number of Questions :	10
Number of Questions to be attempted :	10
Section Marks :	10
Maximum Instruction Time :	0
Sub-Section Number :	1
Sub-Section Id :	383823122
Question Shuffling Allowed :	Yes

Question Number : 1 Question Id : 3838236361 Question Type : MCQ Option Shuffling : Yes
Display Question Number : Yes

Correct Marks : 1 Wrong Marks : 0

If $l > 0$, $K < 0$ are roots of $x^2 + x - 20 = 0$, the system of linear equations $3x - y + 4z = 3$,
 $x + 2y - 3z = -2$ and $6x + 5y + Pz = -3$ has

Options :

1. ✖ unique solution when $P = K$
2. ✖ infinite number of solutions when $P = l$
3. ✖ no solution when $P = K + l$
4. ✔ unique solution when $P = l$

Question Number : 2 Question Id : 3838236362 Question Type : MCQ Option Shuffling : Yes
Display Question Number : Yes

Correct Marks : 1 Wrong Marks : 0

The number of positive integral solutions of $x + y + z = 12$, $x \leq y \leq z$ is

Options :

1. ✖ 55
2. ✖ 36
3. ✔ 11
4. ✖ 13

Question Number : 3 Question Id : 3838236363 Question Type : MCQ Option Shuffling : Yes
Display Question Number : Yes

Correct Marks : 1 Wrong Marks : 0

If the equations $x^2 + 2x + K = 0$ and $x^2 + Kx + 2 = 0$ have one root in common, then the product of the other two roots is

Options :

1. ✓ $2K$
2. ✗ $12 + K$
3. ✗ $K + 1$
4. ✗ $3K$

Question Number : 4 Question Id : 3838236364 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes

Correct Marks : 1 Wrong Marks : 0

If for a progression, sum of the first n terms is $2n^2 + 5n + 6$ and T_n is the n^{th} term of the

progression, then $\sum_{K=1}^{10} T_{3K} =$

Options :

1. ✓ 690
2. ✗ 270
3. ✗ 780
4. ✗ 460

Question Number : 5 Question Id : 3838236365 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes

Correct Marks : 1 Wrong Marks : 0

Let X be a discrete random variable with probability mass function $P(X = x)$ where

$x \in \{x_1, x_2, \dots, x_n\}$. If $\sum_{i=1}^n (x_i - 2)^2 P(X = x_i) = 28$ and $\sum_{i=1}^n (x_i + 2)^2 P(X = x_i) = 12$. Then

variance of X is

Options :

1. ✗ 20

2. ✓ 12

3. ✗ 8

4. ✗ 40

Question Number : 6 Question Id : 3838236366 Question Type : MCQ Option Shuffling : Yes
Display Question Number : Yes

Correct Marks : 1 Wrong Marks : 0

If b_{yx} and b_{xy} are regression coefficients and they are equal, then

Options :

1. ✗ correlation coefficient is one

2. ✓ variance of x and variance of y are equal

3. ✗ Mean of x and mean of y are equal

4. ✗ Standard deviation of x is greater than standard deviation of y

Question Number : 7 Question Id : 3838236367 Question Type : MCQ Option Shuffling : Yes
Display Question Number : Yes

Correct Marks : 1 Wrong Marks : 0

If the probability density function of a continuous random variable X is

$$f(X=x) = Ke^{-3x}, \quad 0 < x < \infty, \text{ then a solution of } \frac{P^2+1}{P} = \frac{K}{\sqrt{2}} \text{ is}$$

Options :

1. ✓ $\frac{1}{\sqrt{2}}$

2. ✗ $\sqrt{3}$

3. ✗ 2

4. ✗ $\frac{1}{\sqrt{3}}$

Question Number : 8 Question Id : 3838236368 Question Type : MCQ Option Shuffling : Yes
Display Question Number : Yes

Correct Marks : 1 Wrong Marks : 0

For a bivariate data (x_i, y_i) ($i=1,2,3,\dots,10$), $\sum x_i y_i = 6200$, $\sum x_i = 400$, $\sum y_i = 1220$,
 $\sum x_i^2 = 1800$, then equation of line of best fit is

Options :

1. ✖ $y = 0.2x + 0.3$
2. ✖ $y = 3x + 1$
3. ✖ $y = 2x + 3$
4. ✔ $y = 3x + 2$

Question Number : 9 Question Id : 3838236369 Question Type : MCQ Option Shuffling : Yes
Display Question Number : Yes

Correct Marks : 1 Wrong Marks : 0

In large sample, the critical value for the single tailed test at 5% level of significance is

Options :

1. ✖ 2.58
2. ✔ 1.96
3. ✖ 1.642
4. ✖ 1.28

Question Number : 10 Question Id : 3838236370 Question Type : MCQ Option Shuffling : Yes
Display Question Number : Yes

Correct Marks : 1 Wrong Marks : 0

Mean of a binomial distribution 12 and variance is 8. The probability of having at least one success is

Options :

1. ✖ $1 - \left(\frac{1}{3}\right)^{36}$

2. ✓ $1 - \left(\frac{2}{3}\right)^{36}$

3. ✗ $1 - \left(\frac{2}{3}\right)^{35} \left(\frac{1}{3}\right)$

4. ✗ $1 - \left(\frac{1}{3}\right)^{35} \left(\frac{2}{3}\right)$

Environmental Management

Section Id :	383823123
Section Number :	2
Section type :	Online
Mandatory or Optional :	Mandatory
Number of Questions :	110
Number of Questions to be attempted :	110
Section Marks :	110
Maximum Instruction Time :	0
Sub-Section Number :	1
Sub-Section Id :	383823123
Question Shuffling Allowed :	Yes

Question Number : 11 Question Id : 3838236371 Question Type : MCQ Option Shuffling : Yes

Display Question Number : Yes

Correct Marks : 1 Wrong Marks : 0

Which component of an ecosystem is responsible for the cycling of nutrients such as carbon, nitrogen and phosphorus?

Options :

1. ✗ Primary producers

2. ✗ Consumers

3. ✓ Decomposers

4. ✗ Abiotic factors

Question Number : 12 Question Id : 3838236372 Question Type : MCQ Option Shuffling : Yes

Display Question Number : Yes

Correct Marks : 1 Wrong Marks : 0

Energy flow is always unidirectional in an ecosystem because

Options :

1. ✓ the energy that is lost during energy flow cannot be reused in other stages of energy flow
2. ✗ Energy flows from tertiary consumers to secondary consumers and finally to producers
3. ✗ the energy that is gained during energy flow can be reused in other stages of energy flow
4. ✗ Energy flows from tertiary consumers to producers and finally to primary consumers

Question Number : 13 Question Id : 3838236373 Question Type : MCQ Option Shuffling : Yes

Display Question Number : Yes

Correct Marks : 1 Wrong Marks : 0

Energy flow in an ecosystem is based on which laws?

Options :

1. ✗ Avogadro's law
2. ✗ Gas law
3. ✓ Thermodynamics law
4. ✗ Henry's law

Question Number : 14 Question Id : 3838236374 Question Type : MCQ Option Shuffling : Yes

Display Question Number : Yes

Correct Marks : 1 Wrong Marks : 0

Photosynthesis converts solar energy into the chemical energy of a carbohydrate by

Options :

1. ✓ Reducing CO₂ and oxidizing H₂O
2. ✗ Reducing H₂O and oxidizing CO₂
3. ✗ Reducing the carbohydrate

4. ✖ Reducing glucose and water

Question Number : 15 Question Id : 3838236375 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes

Correct Marks : 1 Wrong Marks : 0

In a food chain, energy is transferred from one trophic level to another. What happens to the energy as it moves up the food chain?

Options :

1. ✖ It increases

2. ✔ It decreases

3. ✖ It remains constant

4. ✖ It fluctuates randomly

Question Number : 16 Question Id : 3838236376 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes

Correct Marks : 1 Wrong Marks : 0

What is the primary purpose of biogeochemical cycles in ecosystems?

Options :

1. ✖ To regulate the temperature of the environment

2. ✔ To recycle nutrients and elements essential for life

3. ✖ To control the population sizes of organisms

4. ✖ To produce energy through photosynthesis

Question Number : 17 Question Id : 3838236377 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes

Correct Marks : 1 Wrong Marks : 0

What are the four factors that affect population growth ecology?

Options :

1. ✖ Predation, competition, resource availability and habitat destruction
2. ✖ Environmental changes, disease outbreaks, natural disasters and genetic mutations
3. ✖ Immigration, emigration, predation and competition
4. ✔ Birth rate, death rate, emigration and immigration

Question Number : 18 Question Id : 3838236378 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes

Correct Marks : 1 Wrong Marks : 0

Which of the following Indian states is known for its significant population of the Bengal Tiger?

Options :

1. ✖ Karnataka
2. ✖ Tamil Nadu
3. ✔ Madhya Pradesh
4. ✖ Maharashtra

Question Number : 19 Question Id : 3838236379 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes

Correct Marks : 1 Wrong Marks : 0

Which part of India is rich in biodiversity?

Options :

1. ✖ The Himalayas
2. ✖ Indo-Burma Region
3. ✔ Western Ghats
4. ✖ Sundaland

Question Number : 20 Question Id : 3838236380 Question Type : MCQ Option

Display Question Number : Yes

Correct Marks : 1 Wrong Marks : 0

The Sundarbans, located in India, are known for being the largest _____ ecosystem in the world

Options :

1. ✖ grass land
2. ✖ pond
3. ✖ forest
4. ✔ mangrove

Question Number : 21 Question Id : 3838236381 Question Type : MCQ Option Shuffling : Yes

Display Question Number : Yes

Correct Marks : 1 Wrong Marks : 0

Which characteristic is common to both bacteria and yeast?

Options :

1. ✔ Unicellular
2. ✖ Eukaryotic
3. ✖ Photosynthetic
4. ✖ Prokaryotic

Question Number : 22 Question Id : 3838236382 Question Type : MCQ Option Shuffling : Yes

Display Question Number : Yes

Correct Marks : 1 Wrong Marks : 0

Which type of medium allows for the differentiation of microorganisms based on their metabolic characteristics?

Options :

1. ✖ Defined medium
2. ✖ Complex medium
3. ✖ Selective medium

4. ✓ Differential medium

Question Number : 23 Question Id : 3838236383 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes

Correct Marks : 1 Wrong Marks : 0

What is the primary mechanism of action of ultraviolet (UV) radiation in controlling microorganisms?

Options :

1. ✗ Protein denaturation
2. ✓ Disruption of DNA replication
3. ✗ Inhibition of metabolic enzymes
4. ✗ Cellular dehydration

Question Number : 24 Question Id : 3838236384 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes

Correct Marks : 1 Wrong Marks : 0

Which chemical agent is effective against enveloped viruses, such as influenza and herpes viruses?

Options :

1. ✗ Ethylene oxide
2. ✗ Benzalkonium chloride
3. ✗ Chlorine dioxide
4. ✓ Quaternary ammonium compounds

Question Number : 25 Question Id : 3838236385 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes

Correct Marks : 1 Wrong Marks : 0

In anaerobic wastewater treatment the microorganisms present are

Options :

1. ✓ methane formers and acid formers
2. ✗ actobacillus
3. ✗ Nocardia
4. ✗ Ecoli

Question Number : 26 Question Id : 3838236386 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes

Correct Marks : 1 Wrong Marks : 0

Which process occurs during the acidogenesis stage of anaerobic digestion?

Options :

1. ✗ Hydrolysis of complex organic compounds
2. ✓ Production of organic acids and volatile fatty acids
3. ✗ Conversion of organic acids to methane and carbon dioxide
4. ✗ Formation of methane gas by methanogens

Question Number : 27 Question Id : 3838236387 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes

Correct Marks : 1 Wrong Marks : 0

In aerobic biological waste treatment, microorganisms utilize which compound as the primary electron acceptor during the degradation of organic matter?

Options :

1. ✓ Oxygen
2. ✗ Carbon dioxide
3. ✗ Nitrate
4. ✗ Sulfate

Question Number : 28 Question Id : 3838236388 Question Type : MCQ Option Shuffling : Yes

Display Question Number : Yes

Correct Marks : 1 Wrong Marks : 0

Which of the following is a major group of microbes involved in nitrogen fixation?

Options :

1. ✓ Bacteria
2. ✗ Fungi
3. ✗ Protozoa
4. ✗ Archaea

Question Number : 29 Question Id : 3838236389 Question Type : MCQ Option Shuffling : Yes

Display Question Number : Yes

Correct Marks : 1 Wrong Marks : 0

Which group of microbes is known for its role in the production of antibiotics?

Options :

1. ✓ Actinomycetes
2. ✗ Cyanobacteria
3. ✗ Archaea
4. ✗ Yeasts

Question Number : 30 Question Id : 3838236390 Question Type : MCQ Option Shuffling : Yes

Display Question Number : Yes

Correct Marks : 1 Wrong Marks : 0

Which of the following is not a common nitrogen source used in cultivation media for microorganisms?

Options :

1. ✗ Ammonium sulfate
2. ✗ Peptone
3. ✗ Urea

4. ✓ Glucose

Question Number : 31 Question Id : 3838236391 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes

Correct Marks : 1 Wrong Marks : 0

What is the scope of environmental chemistry in our daily life?

Options :

- do not help in classify contaminated soils as hazardous waste, manage their disposal, and
- 1. ✗ supervise on-site remediation
- 2. ✗ do not help to assess the risks of contaminants in soil and ground water
- 3. ✓ do help to assess the long-term risks of contaminants in soil and groundwater
- 4. ✗ do not help to undertake corrective strategies

Question Number : 32 Question Id : 3838236392 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes

Correct Marks : 1 Wrong Marks : 0

Environmental chemistry mainly deals with the study of

Options :

- 1. ✓ unwanted substances and their effects
- 2. ✗ flora and fauna
- 3. ✗ biodiversity
- 4. ✗ forest resources

Question Number : 33 Question Id : 3838236393 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes

Correct Marks : 1 Wrong Marks : 0

Acid rain is primarily caused by the emission of which two gases into the atmosphere?

Options :

- 1. ✓ Nitrogen oxides and sulfur dioxide

2. ✖ Carbon monoxide and methane
3. ✖ Ozone and carbon monoxide
4. ✖ Hydrogen sulfide and ammonia

Question Number : 34 Question Id : 3838236394 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes

Correct Marks : 1 Wrong Marks : 0

Which of the following is not a feature of the lithosphere?

Options :

1. ✖ Mountains
2. ✖ Valleys
3. ✖ Ocean trenches
4. ✔ Ozone layer

Question Number : 35 Question Id : 3838236395 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes

Correct Marks : 1 Wrong Marks : 0

Deep-ocean currents are driven by differences in the

Options :

1. ✔ water temperature
2. ✖ water type
3. ✖ water concentration
4. ✖ water source

Question Number : 36 Question Id : 3838236396 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes

Correct Marks : 1 Wrong Marks : 0

Which of the following is not a major biome found in the biosphere?

Options :

1. ✖ Rainforest
2. ✖ Tundra
3. ✖ Desert
4. ✔ Plateau

Question Number : 37 Question Id : 3838236397 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes

Correct Marks : 1 Wrong Marks : 0

The boundary between the troposphere and stratosphere is known as the

Options :

1. ✔ Tropopause
2. ✖ Stratopause
3. ✖ Mesopause
4. ✖ Thermopause

Question Number : 38 Question Id : 3838236398 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes

Correct Marks : 1 Wrong Marks : 0

Which photochemical oxidants are formed by the action of sunlight on nitrogen oxides and reactive hydrocarbons

Options :

1. ✔ peroxyacetyl nitrate
2. ✖ acid rain
3. ✖ inorganic carbon
4. ✖ particulate matter

Question Number : 39 Question Id : 3838236399 Question Type : MCQ Option Shuffling : Yes

Display Question Number : Yes

Correct Marks : 1 Wrong Marks : 0

Ozone is good

Options :

1. ✖ in the troposphere
2. ✖ in the mesosphere
3. ✔ in the stratosphere
4. ✖ in the thermosphere

Question Number : 40 Question Id : 3838236400 Question Type : MCQ Option Shuffling : Yes

Display Question Number : Yes

Correct Marks : 1 Wrong Marks : 0

Which global agreement protects the stratospheric ozone layer by phasing out the production and consumption of ozone-depleting substances (ODS)

Options :

1. ✖ Kyoto protocol
2. ✔ Montreal protocol
3. ✖ Paris agreement
4. ✖ Stockholm agreement

Question Number : 41 Question Id : 3838236401 Question Type : MCQ Option Shuffling : Yes

Display Question Number : Yes

Correct Marks : 1 Wrong Marks : 0

Which of the following is a key component of Cation Exchange capacity of the soils?

Options :

1. ✖ Nitrate ions
2. ✖ Anions
3. ✔ Exchangeable cations

4. ✖ Soil water content

Question Number : 42 Question Id : 3838236402 Question Type : MCQ Option Shuffling : Yes
Display Question Number : Yes

Correct Marks : 1 Wrong Marks : 0

Why is Cation Exchange capacity of the soils important in agriculture?

Options :

- 1. ✖ It influences soil color
- 2. ✖ It affects soil pH
- 3. ✔ It indicates nutrient-holding capacity
- 4. ✖ It determines soil structure

Question Number : 43 Question Id : 3838236403 Question Type : MCQ Option Shuffling : Yes
Display Question Number : Yes

Correct Marks : 1 Wrong Marks : 0

Which of the following is a natural source of aerosols?

Options :

- 1. ✔ Volcanic eruptions
- 2. ✖ Industrial emissions
- 3. ✖ Deforestation
- 4. ✖ Automobile exhaust

Question Number : 44 Question Id : 3838236404 Question Type : MCQ Option Shuffling : Yes
Display Question Number : Yes

Correct Marks : 1 Wrong Marks : 0

How do aerosols contribute to air quality concerns?

Options :

- 1. ✖ By reducing respiratory diseases

2. ✖ By acting as natural air purifiers
3. ✔ By causing air pollution and respiratory issues
4. ✖ By having no impact on human health

Question Number : 45 Question Id : 3838236405 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes

Correct Marks : 1 Wrong Marks : 0

Which of the following human activities is a significant source of anthropogenic trace metal contamination in soils?

Options :

1. ✖ Organic farming
2. ✔ Mining and industrial activities
3. ✖ Reforestation projects
4. ✖ Environmental conservation efforts

Question Number : 46 Question Id : 3838236406 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes

Correct Marks : 1 Wrong Marks : 0

How does soil salinity affect plant growth?

Options :

1. ✖ Promotes optimal growth
2. ✔ Inhibits germination and growth
3. ✖ Has no impact on plants
4. ✖ Increases resistance to diseases

Question Number : 47 Question Id : 3838236407 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes

Correct Marks : 1 Wrong Marks : 0

What is the purpose of adding chlorine or ozone during water treatment?

Options :

1. ✖ To remove suspended particles
2. ✖ To neutralize pH levels
3. ✔ To kill bacteria and viruses
4. ✖ To enhance taste and odor

Question Number : 48 Question Id : 3838236408 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes

Correct Marks : 1 Wrong Marks : 0

Which of the following method is not used in water purification systems?

Options :

1. ✖ Filtration
2. ✖ Chlorination
3. ✖ Distillation
4. ✔ Fermentation

Question Number : 49 Question Id : 3838236409 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes

Correct Marks : 1 Wrong Marks : 0

What is the purpose of primary treatment in wastewater treatment plants?

Options :

1. ✔ To remove suspended solids
2. ✖ To neutralize pH levels
3. ✖ To kill harmful bacteria
4. ✖ To remove dissolved minerals

Question Number : 50 Question Id : 3838236410 Question Type : MCQ Option Shuffling : Yes

Display Question Number : Yes

Correct Marks : 1 Wrong Marks : 0

Which process is commonly used in secondary treatment to break down organic matter?

Options :

1. ✖ Filtration
2. ✖ sedimentation
3. ✖ Chlorination
4. ✔ Activated sludge process

Question Number : 51 Question Id : 3838236411 Question Type : MCQ Option Shuffling : Yes

Display Question Number : Yes

Correct Marks : 1 Wrong Marks : 0

What is the primary function of baghouse filters in air pollution control?

Options :

1. ✖ To remove sulfur dioxide (SO_2)
2. ✖ To remove nitrogen oxides (NO_x)
3. ✔ To remove particulate matter
4. ✖ To neutralize acidic gases

Question Number : 52 Question Id : 3838236412 Question Type : MCQ Option Shuffling : Yes

Display Question Number : Yes

Correct Marks : 1 Wrong Marks : 0

Which of the following is a method used to control sulfur dioxide (SO_2) emissions?

Options :

1. ✔ Wet scrubbing
2. ✖ Catalytic converters
3. ✖ Baghouse filters

4. ✖ Electrostatic precipitators

Question Number : 53 Question Id : 3838236413 Question Type : MCQ Option Shuffling : Yes
Display Question Number : Yes

Correct Marks : 1 Wrong Marks : 0

The permissible noise level in industrial areas in India is

Options :

1. ✖ 65 dB for day time and 55 dB at night
2. ✔ 75 dB for daytime and 70 dB at night
3. ✖ 55 dB for daytime and 45 dB at night
4. ✖ 45 dB for daytime and 35 dB at night

Question Number : 54 Question Id : 3838236414 Question Type : MCQ Option Shuffling : Yes
Display Question Number : Yes

Correct Marks : 1 Wrong Marks : 0

Which parameter is commonly measured to determine the biochemical oxygen demand (BOD) of wastewater?

Options :

1. ✖ Nitrate concentration
2. ✖ Ammonia level
3. ✔ Dissolved oxygen
4. ✖ Organic content

Question Number : 55 Question Id : 3838236415 Question Type : MCQ Option Shuffling : Yes
Display Question Number : Yes

Correct Marks : 1 Wrong Marks : 0

Which of the following is an indicator of wastewater salinity?

Options :

1. ✔ Conductivity

2. ✖ Total suspended solids (TSS)

3. ✖ pH level

4. ✖ BOD level

Question Number : 56 Question Id : 3838236416 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes

Correct Marks : 1 Wrong Marks : 0

Which regulatory authority establishes the noise limits in industrial areas?

Options :

1. ✖ Environmental Protection Agency (EPA)

2. ✖ Food and Drug Administration (FDA)

3. ✖ Federal Aviation Administration (FAA)

4. ✔ Occupational Safety and Health Administration (OSHA)

Question Number : 57 Question Id : 3838236417 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes

Correct Marks : 1 Wrong Marks : 0

What is the purpose of a catalytic converter in vehicles

Options :

1. ✖ Increase fuel efficiency

2. ✔ Reduce harmful emissions

3. ✖ Improve engine performance

4. ✖ Enhance vehicle sound

Question Number : 58 Question Id : 3838236418 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes

Correct Marks : 1 Wrong Marks : 0

Which parameter is commonly measured to assess the level of pathogens in wastewater?

Options :

1. ✖ pH level
2. ✖ Chlorine concentration
3. ✔ Total coliform count
4. ✖ Dissolved oxygen

Question Number : 59 Question Id : 3838236419 Question Type : MCQ Option Shuffling : Yes

Display Question Number : Yes

Correct Marks : 1 Wrong Marks : 0

What is the primary function of an Electrostatic Precipitator (ESP)

Options :

1. ✔ To remove particulate matter from air or gas streams
2. ✖ To neutralize acidic pollutants
3. ✖ To reduce nitrogen oxide emissions
4. ✖ To remove volatile organic compounds (VOCs)

Question Number : 60 Question Id : 3838236420 Question Type : MCQ Option Shuffling : Yes

Display Question Number : Yes

Correct Marks : 1 Wrong Marks : 0

What are the primary pollutant responsible for formation of photochemical smog?

Options :

1. ✖ Sulfur dioxide (SO₂)
2. ✖ Particulate matter (PM)
3. ✔ Ozone (O₃) and volatile organic compounds (VOCs)
4. ✖ nitrogen oxides (NO_x)

Question Number : 61 Question Id : 3838236421 Question Type : MCQ Option

Display Question Number : Yes

Correct Marks : 1 Wrong Marks : 0

The radioactive isotope to find the Earth's age in radiometric dating of rocks is

Options :

1. ✖ Carbon-14
2. ✔ Uranium-238
3. ✖ Potassium-40
4. ✖ Lead-206

Question Number : 62 Question Id : 3838236422 Question Type : MCQ Option Shuffling : Yes

Display Question Number : Yes

Correct Marks : 1 Wrong Marks : 0

Which of the following is foliated sedimentary rock?

Options :

1. ✔ Shale
2. ✖ Marble
3. ✖ Quartz
4. ✖ Sandstone

Question Number : 63 Question Id : 3838236423 Question Type : MCQ Option Shuffling : Yes

Display Question Number : Yes

Correct Marks : 1 Wrong Marks : 0

If no crystallization takes place, then the rock is

Options :

1. ✖ Holocrysatlline
2. ✖ Plutonic
3. ✔ Glassy
4. ✖ Hypabyssal

Question Number : 64 Question Id : 3838236424 Question Type : MCQ Option Shuffling : Yes

Display Question Number : Yes

Correct Marks : 1 Wrong Marks : 0

Which type of crust is formed when the older rocks are pushed above the younger rocks in earth's crust?

Options :

1. ✖ Normal fault
2. ✖ Reverse fault
3. ✖ Strike-slip fault
4. ✔ Thrust fault

Question Number : 65 Question Id : 3838236425 Question Type : MCQ Option Shuffling : Yes

Display Question Number : Yes

Correct Marks : 1 Wrong Marks : 0

Which landform is formed when the glacier cuts a U-shaped valley by abrasion?

Options :

1. ✔ Fjords
2. ✖ Corris
3. ✖ Aretes
4. ✖ Butte

Question Number : 66 Question Id : 3838236426 Question Type : MCQ Option Shuffling : Yes

Display Question Number : Yes

Correct Marks : 1 Wrong Marks : 0

Which satellite series is operated by the French Space Agency (CNES)

Options :

1. ✖ LANDSAT series
2. ✔ SPOT
3. ✖ RS

4. ✖ IKONOS

Question Number : 67 Question Id : 3838236427 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes

Correct Marks : 1 Wrong Marks : 0

Which satellite sensor is used to monitor the environmental changes like urban growth and deforestation?

Options :

1. ✔ LiDAR sensor
2. ✖ Radar sensor
3. ✖ Magnetometer sensor
4. ✖ Infrared sensors

Question Number : 68 Question Id : 3838236428 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes

Correct Marks : 1 Wrong Marks : 0

What is the temporal resolution of MODIS?

Options :

1. ✔ 1 day
2. ✖ 5 days
3. ✖ 10 days
4. ✖ 14 days

Question Number : 69 Question Id : 3838236429 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes

Correct Marks : 1 Wrong Marks : 0

How many bands does LANDSAT 8 have?

Options :

1. ✖ 10

2. ✖ 5

3. ✔ 11

4. ✖ 7

Question Number : 70 Question Id : 3838236430 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes

Correct Marks : 1 Wrong Marks : 0

Which colour of EM spectrum is used for LiDAR bathymetry studies?

Options :

1. ✖ Yellow

2. ✖ UV

3. ✖ Red

4. ✔ Green

Question Number : 71 Question Id : 3838236431 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes

Correct Marks : 1 Wrong Marks : 0

If the precipitation (P) in a region is 450 mm/year, evapotranspiration (ET) is 200 mm/year, and the change in storage (ΔS) is 80 mm/year, what is the value of quick flow (Q)?

Options :

1. ✔ 170 mm/year

2. ✖ 450 mm/year

3. ✖ 250 mm/year

4. ✖ 280 mm/year

Question Number : 72 Question Id : 3838236432 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes

Correct Marks : 1 Wrong Marks : 0

What is the occurrence of orographic precipitation?

Options :

1. ✖ When the warm air raises over a cold air mass
2. ✖ By frontal lifting of air masses
3. ✔ When the moist air raises over a mountain barrier
4. ✖ By convection in the atmosphere

Question Number : 73 Question Id : 3838236433 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes

Correct Marks : 1 Wrong Marks : 0

The portion of rain fall that hits the ground through canopy is called

Options :

1. ✖ Interception loss
2. ✔ Throughfall
3. ✖ Interception gain
4. ✖ Stem flow

Question Number : 74 Question Id : 3838236434 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes

Correct Marks : 1 Wrong Marks : 0

If the average solar radiation received by the earth is 500 W/m^2 and reflects 70 W/m^2 , what is the available energy for absorption and heating the surface?

Options :

1. ✖ 500 W/m^2
2. ✖ 70 W/m^2
3. ✔ 430 W/m^2
4. ✖ 570 W/m^2

Question Number : 75 Question Id : 3838236435 Question Type : MCQ Option Shuffling : Yes

Display Question Number : Yes

Correct Marks : 1 Wrong Marks : 0

Soil suction pressure and soil moisture pressure can be measured by

Options :

1. ✓ Tensiometers
2. ✗ Lysimeter
3. ✗ Infiltrometer
4. ✗ Piezometers

Question Number : 76 Question Id : 3838236436 Question Type : MCQ Option Shuffling : Yes

Display Question Number : Yes

Correct Marks : 1 Wrong Marks : 0

When a portion of rainfall does not infiltrate into the soil and becomes surface runoff, it is called as

Options :

1. ✗ Base flow
2. ✓ Overland flow
3. ✗ Cover flow
4. ✗ Inter flow

Question Number : 77 Question Id : 3838236437 Question Type : MCQ Option Shuffling : Yes

Display Question Number : Yes

Correct Marks : 1 Wrong Marks : 0

With regard to stream gauging, what for the stage-discharge curve is used?

Options :

1. ✗ To measure the width of the stream
2. ✗ To measure the depth of the stream and presence of debris in the stream
3. ✗ To find out change in velocity of the stream

4. ✓ To relate the water level of a stream to its discharge

Question Number : 78 Question Id : 3838236438 Question Type : MCQ Option Shuffling : Yes
Display Question Number : Yes

Correct Marks : 1 Wrong Marks : 0

What is a falling limb of a synthetic unit hydrograph?

Options :

1. ✓ A part of hydrograph where discharge decreases

2. ✗ Peak discharge of hydrograph

3. ✗ A part of hydrograph where discharge increases

4. ✗ The total volume of water in the hydrograph

Question Number : 79 Question Id : 3838236439 Question Type : MCQ Option Shuffling : Yes
Display Question Number : Yes

Correct Marks : 1 Wrong Marks : 0

What is the size range of sleet pellets?

Options :

1. ✗ Less than 1 mm in diameter

2. ✓ Between 1 mm and 5 mm in diameter

3. ✗ Between 5 mm and 10 mm in diameter

4. ✗ Greater than 10 mm in diameter

Question Number : 80 Question Id : 3838236440 Question Type : MCQ Option Shuffling : Yes
Display Question Number : Yes

Correct Marks : 1 Wrong Marks : 0

Which of the following have higher evaporation rates?

Options :

1. ✗ Wet soil

2. ✓ Dry soil

3. ✗ Grassland

4. ✗ Concrete pavement

Question Number : 81 Question Id : 3838236441 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes

Correct Marks : 1 Wrong Marks : 0

What is the major factor affecting the rate of groundwater recharge?

Options :

1. ✓ Precipitation intensity

2. ✗ Soil permeability

3. ✗ Groundwater depth

4. ✗ Land use

Question Number : 82 Question Id : 3838236442 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes

Correct Marks : 1 Wrong Marks : 0

Which artificial groundwater recharge technique causes directing extra surface water to ponds or infiltration basins?

Options :

1. ✗ Injection wells

2. ✗ Recharge pits

3. ✓ Spreading basins

4. ✗ Recharge trenches

Question Number : 83 Question Id : 3838236443 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes

Correct Marks : 1 Wrong Marks : 0

Which aquifer property is associated with specific yield of the aquifer?

Options :

1. ✓ Porosity
2. ✗ Permeability
3. ✗ Storativity
4. ✗ Transmissivity

Question Number : 84 Question Id : 3838236444 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes

Correct Marks : 1 Wrong Marks : 0

If the transmissivity of the aquifer is $650 \text{ m}^2/\text{day}$ and the thickness of the aquifer is 10 meters, then hydraulic conductivity of the aquifer is

Options :

1. ✗ 650 m/day
2. ✗ 65 m/day
3. ✓ 10 m/day
4. ✗ 160 m/day

Question Number : 85 Question Id : 3838236445 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes

Correct Marks : 1 Wrong Marks : 0

In a groundwater model, the hydraulic conductivity of the aquifer is 10 m/day and the cross-sectional area perpendicular to the flow is 20 m^2 . The hydraulic gradient is 0.006. Calculate the flow rate (Q) using the Darcy's Law.

Options :

1. ✗ $1 \text{ m}^3/\text{day}$
2. ✓ $1.2 \text{ m}^3/\text{day}$
3. ✗ $2 \text{ m}^3/\text{day}$

4. ✖ 0.12 m³/day

Question Number : 86 Question Id : 3838236446 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes

Correct Marks : 1 Wrong Marks : 0

What is the recharge mechanism of the dug well?

Options :

1. ✔ Direct rain fall into the well openings
2. ✖ By the lateral flow from nearby surface water bodies
3. ✖ Through seepage from the surrounding areas after rain fall
4. ✖ By artificial means such as recharge pits and collection from rooftops of houses

Question Number : 87 Question Id : 3838236447 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes

Correct Marks : 1 Wrong Marks : 0

What material is commonly used for casing in well construction?

Options :

1. ✖ Steel
2. ✖ Concrete
3. ✔ PVC
4. ✖ Wood

Question Number : 88 Question Id : 3838236448 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes

Correct Marks : 1 Wrong Marks : 0

Which type of aquifer has an impervious layer above and below it?

Options :

1. ✔ Confined aquifer

2. ✖ Unconfined aquifer

3. ✖ Perched aquifer

4. ✖ Alluvial Aquifer

Question Number : 89 Question Id : 3838236449 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes

Correct Marks : 1 Wrong Marks : 0

What is the relationship between porosity and specific yield?

Options :

1. ✔ Porosity is greater than specific yield

2. ✖ Specific yield is greater than porosity

3. ✖ Porosity and specific yield are equal

4. ✖ Porosity and specific yield are independent of each other

Question Number : 90 Question Id : 3838236450 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes

Correct Marks : 1 Wrong Marks : 0

What is the example of an aquitard?

Options :

1. ✖ Zeolite

2. ✖ Gravel

3. ✖ Sand

4. ✔ Shale

Question Number : 91 Question Id : 3838236451 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes

Correct Marks : 1 Wrong Marks : 0

What is the difference between an aquifuge and an aquitard?

Options :

1. ✖ Aquifuge has higher permeability than aquitard
2. ✔ Aquifuge has lower permeability than aquitard
3. ✖ Aquitard cannot store and transmit groundwater and aquifuge can store
4. ✖ Aquitard is less porous than aquifuge

Question Number : 92 Question Id : 3838236452 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes

Correct Marks : 1 Wrong Marks : 0

What is the function of aquiclude in groundwater recharge systems?

Options :

1. ✖ They facilitate the flow of groundwater
2. ✖ They increase the recharge of the groundwater
3. ✔ They act as a hindrance to ground water flow
4. ✖ They store and transmit groundwater

Question Number : 93 Question Id : 3838236453 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes

Correct Marks : 1 Wrong Marks : 0

What was the major challenge associated with Bhakra-Nangal project?

Options :

1. ✖ Soil erosion
2. ✔ Loss of biodiversity like flora and fauna
3. ✖ Desertification
4. ✖ Deforestation

Question Number : 94 Question Id : 3838236454 Question Type : MCQ Option Shuffling : Yes

Display Question Number : Yes

Correct Marks : 1 Wrong Marks : 0

What is the example of unconsolidated formulation?

Options :

1. ✘ Limestone
2. ✘ Shale
3. ✘ Granite
4. ✔ Sandstone

Question Number : 95 Question Id : 3838236455 Question Type : MCQ Option Shuffling : Yes

Display Question Number : Yes

Correct Marks : 1 Wrong Marks : 0

How will the degree of consolidation affect the porosity of the formation?

Options :

1. ✘ Higher degree of consolidation leads to higher porosity
2. ✘ Degree of consolidation does not affect porosity
3. ✘ It is not possible to determine the porosity by degree of consolidation
4. ✔ Higher degree of consolidation leads to lower porosity

Question Number : 96 Question Id : 3838236456 Question Type : MCQ Option Shuffling : Yes

Display Question Number : Yes

Correct Marks : 1 Wrong Marks : 0

What is the benefit in construction of the Narmada Sagar project?

Options :

1. ✔ Enhanced flood control
2. ✘ Decrease in potential of agriculture
3. ✘ Reduced water availability downstream
4. ✘ Increased sediment load in the river

Question Number : 97 Question Id : 3838236457 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes

Correct Marks : 1 Wrong Marks : 0

Which type of aquifer is more prone to contamination?

Options :

1. ✓ Unconfined Aquifer
2. ✗ Confined Aquifer
3. ✗ Artesian Aquifer
4. ✗ Perched Aquifer

Question Number : 98 Question Id : 3838236458 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes

Correct Marks : 1 Wrong Marks : 0

If a confined aquifer has a specific yield of 0.40, what does this value indicate about the aquifer's ability to release groundwater?

Options :

1. ✓ It can release 40% of its water under pumping
2. ✗ It can release 40% of its water without pumping
3. ✗ It can release 60% of its water under pumping
4. ✗ It can release 60% of its water without pumping

Question Number : 99 Question Id : 3838236459 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes

Correct Marks : 1 Wrong Marks : 0

The storage coefficient of aquifer represents

Options :

1. ✗ Ratio of specific yield to porosity

2. ✖ Volume of water retained in storage per unit rise in head
3. ✔ Volume of water released from storage per unit decline in head
4. ✖ Ratio of specific retention to specific yield

Question Number : 100 Question Id : 3838236460 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes

Correct Marks : 1 Wrong Marks : 0

Measurement of specific yield of an aquifer in field is done by

Options :

1. ✖ Slug tests
2. ✖ Grain size analysis
3. ✖ Drain tests
4. ✔ Pumping tests

Question Number : 101 Question Id : 3838236461 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes

Correct Marks : 1 Wrong Marks : 0

Which stage of EIA involves the identification of potential impacts and formulation of mitigation measures?

Options :

1. ✖ Assessment of the impact
2. ✔ Scoping
3. ✖ Monitoring
4. ✖ Screening

Question Number : 102 Question Id : 3838236462 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes

Correct Marks : 1 Wrong Marks : 0

According to Montreal Protocol, which is not the key aspect of the international cooperation?

Options :

1. ✘ Technology transfer
2. ✘ Financial assistance
3. ✔ Emission trading
4. ✘ Capacity building

Question Number : 103 Question Id : 3838236463 Question Type : MCQ Option Shuffling : Yes

Display Question Number : Yes

Correct Marks : 1 Wrong Marks : 0

What is Green Climate Fund (GCF)?

Options :

1. ✘ A global carbon trading platform
2. ✘ A fund to compensate countries for loss and damage due to climate change
3. ✘ A technology transfer platform for climate-friendly technologies
4. ✔ A financial mechanism under the UNFCCC to support climate action in developing countries

Question Number : 104 Question Id : 3838236464 Question Type : MCQ Option Shuffling : Yes

Display Question Number : Yes

Correct Marks : 1 Wrong Marks : 0

How is the effectiveness of Soil Quality Management Plan assessed?

Options :

1. ✘ Through satellite imagery of land use practices
2. ✔ Regular sampling and analysis of soil samples
3. ✘ Through interviews with local farmers
4. ✘ Through laboratory experiments

Question Number : 105 Question Id : 3838236465 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes

Correct Marks : 1 Wrong Marks : 0

Which of the following international treaty aims to address the climate change by limiting global warming below 2° Celsius above pre-industrial levels?

Options :

1. ✖ Montreal Protocol
2. ✔ Paris agreement
3. ✖ Kyoto protocol
4. ✖ Copenhagen Accord

Question Number : 106 Question Id : 3838236466 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes

Correct Marks : 1 Wrong Marks : 0

The Stockholm Convention aims to protect human health and environment from which types of pollutants?

Options :

1. ✖ Ozone-depleting substances
2. ✖ Greenhouse gases
3. ✖ Heavy metals
4. ✔ Persistent organic pollutants

Question Number : 107 Question Id : 3838236467 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes

Correct Marks : 1 Wrong Marks : 0

Which international agreement aims to control the transboundary transit of hazardous wastes and their disposal?

Options :

1. ✖ Rotterdam Convention

2. ✓ Basel Convention
3. ✗ Minamata Convention
4. ✗ Stockholm Convention

Question Number : 108 Question Id : 3838236468 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes

Correct Marks : 1 Wrong Marks : 0

Which of the following is not included in the baseline studies conducted in EIA?

Options :

1. ✓ Economic analysis
2. ✗ Air quality monitoring
3. ✗ Noise level assessments
4. ✗ Ecological surveys

Question Number : 109 Question Id : 3838236469 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes

Correct Marks : 1 Wrong Marks : 0

How can public participation improve the assessment of social and economic impacts in an EIA?

Options :

1. ✗ By excluding community perspectives and concerns
2. ✓ By promoting transparency and accountability
3. ✗ By expediting the approval process without public input
4. ✗ By ignoring the potential impacts on local economies

Question Number : 110 Question Id : 3838236470 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes

Correct Marks : 1 Wrong Marks : 0

What is the role of Cumulative Impact Assessment (CIA) in EIA?

Options :

1. ✖ CIA assesses the environmental impacts of individual projects
2. ✖ CIA is not a part of the EIA process
3. ✔ CIA assesses the combined impacts of multiple projects on the environment
4. ✖ CIA is conducted after project completion

Question Number : 111 Question Id : 3838236471 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes

Correct Marks : 1 Wrong Marks : 0

What is the role of biogeochemistry in understanding Earth's systems?

Options :

1. ✖ To study the behavior of elements in isolation
2. ✖ To analyze only biological processes
3. ✔ To investigate the flow and transformations of elements
4. ✖ To study the behavior of elements in space

Question Number : 112 Question Id : 3838236472 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes

Correct Marks : 1 Wrong Marks : 0

Which of the following is not a physical method for controlling microorganisms?

Options :

1. ✖ Radiation
2. ✖ Filtration
3. ✔ Disinfection
4. ✖ Desiccation

Question Number : 113 Question Id : 3838236473 Question Type : MCQ Option Shuffling : Yes

Display Question Number : Yes

Correct Marks : 1 Wrong Marks : 0

Which of the following atmospheric pollutants is known to contribute to the formation of ozone in troposphere?

Options :

1. ✖ Sulfur dioxide (SO₂)
2. ✔ Oxides of nitrogen & volatile organic compounds
3. ✖ Carbon monoxide (CO)
4. ✖ Carbondioxide (CO₂)

Question Number : 114 Question Id : 3838236474 Question Type : MCQ Option Shuffling : Yes

Display Question Number : Yes

Correct Marks : 1 Wrong Marks : 0

Which technology utilizes electric charges to remove particulate matter from industrial flue gases?

Options :

1. ✖ Flue Gas Desulfurization (FGD)
2. ✖ Selective Catalytic Reduction (SCR)
3. ✔ Electrostatic Precipitators (ESP)
4. ✖ Thermal Oxidizers

Question Number : 115 Question Id : 3838236475 Question Type : MCQ Option Shuffling : Yes

Display Question Number : Yes

Correct Marks : 1 Wrong Marks : 0

Which technology combusts volatile organic compounds (VOCs) at high temperatures to convert them into carbon dioxide and water vapor?

Options :

1. ✖ Vapor Recovery Systems

2. ✖ Electrostatic Precipitators (ESP)

3. ✔ Thermal Oxidizers

4. ✖ Fabric Filters

Question Number : 116 Question Id : 3838236476 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes

Correct Marks : 1 Wrong Marks : 0

Which landform is typically created by the erosional action of rivers over geological time scales?

Options :

1. ✖ Moraine

2. ✔ Delta

3. ✖ Mesa

4. ✖ Fjord

Question Number : 117 Question Id : 3838236477 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes

Correct Marks : 1 Wrong Marks : 0

What distinguishes metamorphic rocks from igneous and sedimentary rocks?

Options :

1. ✖ They are formed from the cooling of molten lava

2. ✖ They are formed from the accumulation of sediments

3. ✔ They are formed from the alteration of pre-existing rocks

4. ✖ They are formed from the compression of organic remains

Question Number : 118 Question Id : 3838236478 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes

Correct Marks : 1 Wrong Marks : 0

Which type of satellite sensor captures data in various spectral bands, including visible, infrared and microwave?

Options :

1. ✖ Lidar sensor
2. ✖ SAR sensor
3. ✔ Multispectral sensor
4. ✖ Hyperspectral sensor

Question Number : 119 Question Id : 3838236479 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes

Correct Marks : 1 Wrong Marks : 0

Which of the following is a basic principle of surveying?

Options :

1. ✖ Satellite imagery analysis
2. ✖ Data interpolation
3. ✔ Triangulation
4. ✖ Spectral analysis

Question Number : 120 Question Id : 3838236480 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes

Correct Marks : 1 Wrong Marks : 0

What is the process of measuring water discharge in rivers and streams?

Options :

1. ✖ Rain gauging
2. ✖ Infiltration measurement
3. ✔ Stream gauging
4. ✖ Transpiration monitoring