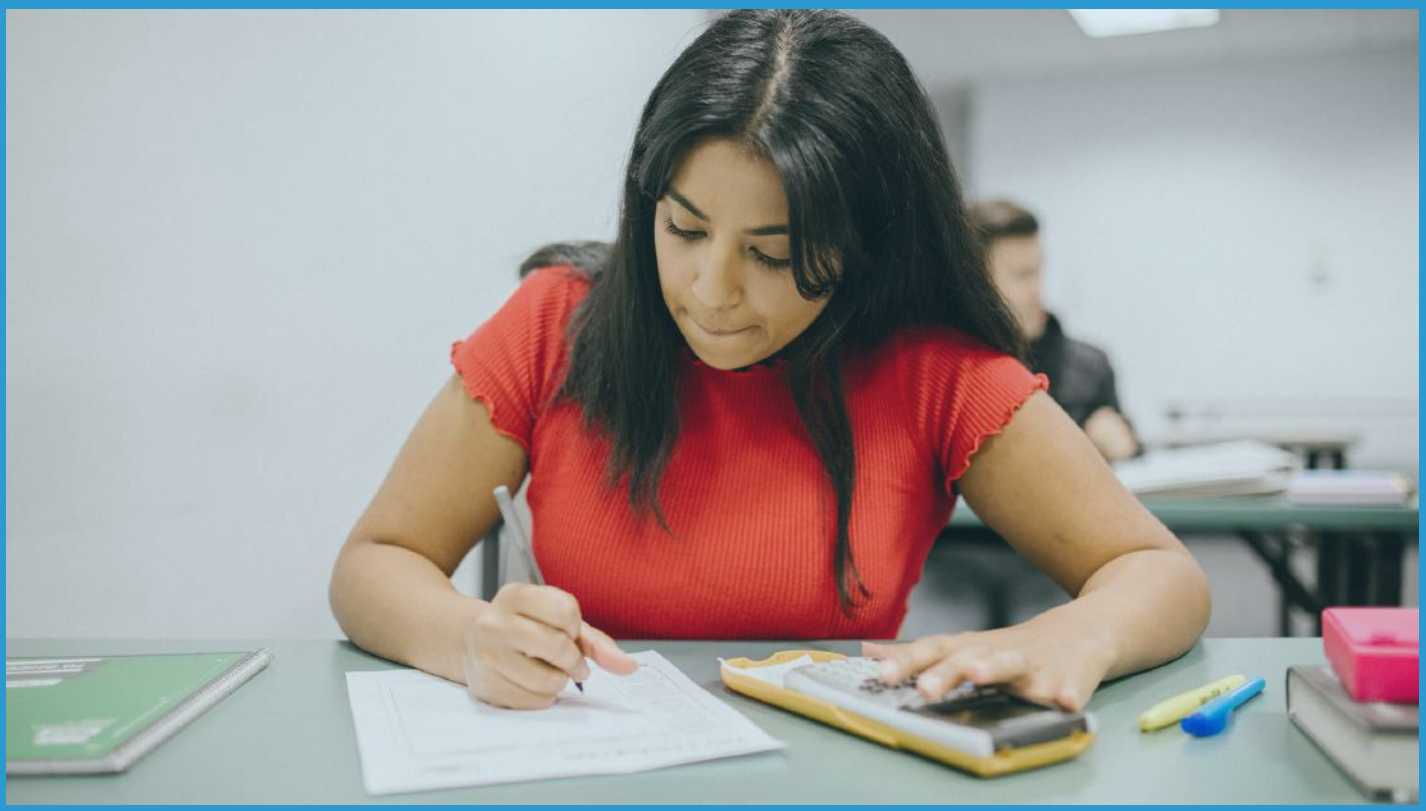
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Notations :

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 1st June 2023 Shift1
Subject Name :	Environmental Management
Creation Date :	2023-06-01 13:25:41
Duration :	120
Total Marks :	120
Display Marks:	No
Share Answer Key With Delivery Engine :	Yes
Actual Answer Key :	Yes
Calculator :	None
Magnifying Glass Required? :	No
Ruler Required? :	No
Eraser Required? :	No
Scratch Pad Required? :	No
Rough Sketch/Notepad Required? :	No
Protractor Required? :	No
Show Watermark on Console? :	Yes
Highlighter :	No
Auto Save on Console?	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 :	28393674
Group Maximum Duration :	0
Group Minimum Duration :	120
Show Attended Group? :	No
Edit Attended Group? :	No
Break time :	0
Group Marks :	120
Is this Group for Examiner? :	No
Examiner permission :	Cant View
Show Progress Bar? :	No

Mathematics

Section Id :	283936197
Section Number :	1
Section type :	Online
Mandatory or Optional :	Mandatory
Number of Questions :	10
Number of Questions to be attempted :	10
Section Marks :	10
Enable Mark as Answered Mark for Review and Clear Response :	Yes
Maximum Instruction Time :	0

Sub-Section Number :	1
Sub-Section Id :	283936197
Question Shuffling Allowed :	Yes
Is Section Default? :	null

Question Number : 1 Question Id : 28393610241 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

If the roots of the equation $x^2-5x+6=0$ are α and β, then the equation having the roots $(\alpha-1)$ and $(\beta-1)$ is

Options :

1. ✖ $x^2+3x-2=0$

2. ✔ $x^2-3x+2=0$

3. ✖ $x^2+3x+2=0$

4. ✖ $x^2-3x-2=0$

Question Number : 2 Question Id : 28393610242 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

If the sum of the first 6 terms of an arithmetic progression is 3 and the first term is 4 times the third term, then the fifth term is

Options :

1. ✔ -4

2. ✖ -2

3. ✖ 2

4. ✖ 4

Question Number : 3 Question Id : 28393610243 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

The value of k so that ${}^{15}C_{3k} = {}^{15}C_{k+3}$ is

Options :

1. ✖ 2

2. ✖ -3

3. ✔ 3

4. ✖ 1

Question Number : 4 Question Id : 28393610244 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

$$\begin{vmatrix} -3 & 2 & 1 \\ 0 & 2 & 1 \\ 0 & 0 & -5 \end{vmatrix} =$$

Options :

1. ✖ -30

2. ✖ 25

3. ✖ 32

4. ✔ 30

Question Number : 5 Question Id : 28393610245 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

A continuous random variable X has the p.d.f. $f(x)=\begin{cases} a x^3, & 0 \le x < 1 \\ 0 & \text{elsewhere} \end{cases}$.

Then the value of a is

Options :

1. ✖ 2

2. ✔ 4

3. ✖ 1

4. ✖ $\frac{1}{4}$

Question Number : 6 Question Id : 28393610246 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time

: N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

Let X be a Poisson variate such that $P(X=0)=0.1$. The variance of X is

Options :

1. ✖ 1

2. ✖ 10

3. ✔ $\log_e 10$

4. ✖ $\log_e 5$

Question Number : 7 Question Id : 28393610247 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

The correlation coefficient for the data $(1,2),(2,4),(3,7),(4,9),(5,12),(6,14)$ is

Options :

1. ✔ 0.998

2. ✖ 0.899

3. ✖ 0.975

4. ✖ -1

Question Number : 8 Question Id : 28393610248 Question Type : MCQ Option Shuffling : Yes

Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

If a sample of size 8 has values 1, 3, 3, 2, 5, 6, 4, 8 then its mean is

Options :

1. ✖ 3

2. ✔ 4

3. ✖ 5

4. ✖ 3.5

Question Number : 9 Question Id : 28393610249 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

The normal equations for fitting the line $y = a + bx$ to the data $(-2, 1), (-1, 2), (0, 3), (1, 3), (2, 4)$ are

Options :

1. ✖ $5a=12,\ 10b=3$

2. ✖ $5a=13,\ a + 10b=7$

3. ✖ $5a + b=13,\ 10b=7$

4. ✔ $5a=13,\ 10b=7$

Question Number : 10 Question Id : 28393610250 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

A random variable X has the following probability distribution:

X	0	1	2	3	4
$P(X)$	$3k$	$3k$	k	$2k$	$6k$

The value of $P(X=4)$ is

Options :

1. ✔ $\frac{2}{5}$

2. ✖ $\frac{1}{5}$

3. ✖ $\frac{2}{15}$

4. ✖ $\frac{1}{15}$

Environmental Management

Section Id :	283936198
Section Number :	2
Section type :	Online
Mandatory or Optional :	Mandatory
Number of Questions :	110
Number of Questions to be attempted :	110

Section Marks :	110
Enable Mark as Answered Mark for Review and Clear Response :	Yes
Maximum Instruction Time :	0
Sub-Section Number :	1
Sub-Section Id :	283936198
Question Shuffling Allowed :	Yes
Is Section Default? :	null

Question Number : 11 Question Id : 28393610251 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

Which one is not part of forest ecosystems classification.

Options :

1. ✖ tropical, temperate and boreal

2. ✖ grassland, plain land and desert land

3. ✖ tropical, temperate and coniferous

4. ✔ roads & corridors

Question Number : 12 Question Id : 28393610252 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

Which one of the following can be considered as a functional unit of nature?

Options :

1. ✖ Humans

2. ✔ Ecosystem

3. ✖ Vehicles

4. ✖ Plants

Question Number : 13 Question Id : 28393610253 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

Two Basic categories of an ecosystem?

Options :

1. ✔ Aquatic and terrestrial

2. ✖ Aquatic and forest

3. ✖ Ponds and lakes

4. ✖ Rivers and forests

Question Number : 14 Question Id : 28393610254 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

Which one of the following is the characteristic of all types of ecosystems?

Options :

1. ✖ Interaction between living things

2. ✔ Interaction between biotic and abiotic factors

3. ✖ Interaction between abiotic factors

4. ✖ Fights among individuals

Question Number : 15 Question Id : 28393610255 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

Which one uses the decomposed dead matter?

Options :

1. ✖ Zooplankton

2. ✔ Autotrophs

3. ✖ Heterotrophs

4. ✖ Flagellates

Question Number : 16 Question Id : 28393610256 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

The energy flow in the ecosystem is

Options :

1. ✖ multidirectional

2. ✖ bidirectional

3. ✔ unidirectional

4. ✖ cyclical

Question Number : 17 Question Id : 28393610257 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

In which form the energy is lost in an ecosystem?

Options :

1. ✖ Vapours

2. ✔ Heat

3. ✖ Oxygen

4. ✖ Fecal matter

Question Number : 18 Question Id : 28393610258 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

Which one of the following biogeocycles are called as sedimentary cycle

Options :

1. ✖ nitrogen cycle

2. ✖ carbon cycle

3. ✖ oxygen

4. ✔ phosphorous and sulphur

Question Number : 19 Question Id : 28393610259 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

Nitrogen fixing bacteria cannot function in the presence of

Options :

1. ✖ hydrogen

2. ✖ water

3. ✔ oxygen

4. ✖ carbon

Question Number : 20 Question Id : 28393610260 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time

: N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

Studying of species-level, genetic level and molecular level diversity for economical purpose is called

Options :

1. ✖ Biopiracy

2. ✖ Biofuel

3. ✔ Bioprospecting

4. ✖ Biodiversity

Question Number : 21 Question Id : 28393610261 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

MacConkey agar differentiates

Options :

1. ✔ lactose-fermenting bacteria from nonlactose-fermenting bacteria

2. ✖ staphylococci bacteria from salmonella bacteria

3. ✖ aerobic and anaerobic bacteria

4. ✖ ecoli

Question Number : 22 Question Id : 28393610262 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

The gram-positive bacteria retain the crystal violet colour and stain purple whereas the gram-negative bacteria lose crystal violet and stain red because of the presence of

Options :

1. ✔ Gram-positive bacteria have cell walls made of a thick layer of peptidoglycan. The cell walls of gram-negative bacteria contain only a thin layer of peptidoglycan

2. ✖ Gram-positive bacteria have cell walls made of a thin layer of peptidoglycan. The cell walls of gram-negative bacteria contain only a thick layer of peptidoglycan

3. ✖ Gram-negative bacteria have cell walls made of a thin layer of peptidoglycan. The cell walls of gram-negative bacteria contain only a thick layer of peptidoglycan

4. ✖ Gram-positive bacteria have cell walls made of a thin layer of peptidoglycan. The cell walls of gram-positivie bacteria contain only a thick layer of peptidoglycan

Question Number : 23 Question Id : 28393610263 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

To obtain separated colonies from a mixed bacterial culture, which isolation methods can be used.

Options :

1. ✔ pour plate method

2. ✖ black plate method

3. ✖ straight plate method

4. ✖ silver plate method

Question Number : 24 Question Id : 28393610264 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

Prokaryotes represent

Options :

1. ✖ higher forms of life on Earth.

2. ✔ lacks a nucleus

3. ✖ multi celled organisms

4. ✖ multiwall organisms

Question Number : 25 Question Id : 28393610265 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

Physical method(s) for the control of microorganisms is/are

Options :

1. ✖ addition of sugar

2. ✖ adding of nutrients

3. ✔ osmotic pressure and filtration.

4. ✖ refrigeration

Question Number : 26 Question Id : 28393610266 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

Microorganisms that are not commonly present in wastewater treatment process.

Options :

1. ✖ Bacteria

2. ✖ Protozoa

3. ✖ Filamentous bacteria

4. ✔ Mycoplasma

Question Number : 27 Question Id : 28393610267 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

Which bacteria converts ammonia to nitrites?

Options :

1. ✔ Nitrosomonas

2. ✖ Nitrococci

3. ✖ Nitrosobacteria

4. ✖ Nitrous bacteria

Question Number : 28 Question Id : 28393610268 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

Organisms that generate energy by the oxidation of inorganic molecules for biosynthesis or energy conservation via aerobic or anaerobic respiration are called

Options :

1. ✔ chemolithotrophic

2. ✖ endemic

3. ✖ autotrophic

4. ✖ mixotrophic

Question Number : 29 Question Id : 28393610269 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

Which method is used for the measurement of microorganisms?

Options :

1.

✔ plate count method

2. ✖ titration method

3. ✖ toxicity measurement method

4. ✖ autoclave method

Question Number : 30 Question Id : 28393610270 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

Protozoa and other minute animal life forms in aquatic ecosystems are called

Options :

1. ✖ phytpoplancton

2. ✔ zooplankton

3. ✖ producers

4. ✖ consumers

Question Number : 31 Question Id : 28393610271 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

Which international agreement is associated with ozone depleting substances?

Options :

1. ✖ Paris agreement

2. ✖ Kyoto protocol

3. ✔ Montreal protocol

4. ✖ Stockholm convention

Question Number : 32 Question Id : 28393610272 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

According to Bronsted – Lowry theory, a base is a

Options :

1. ✖ a proton donor.

2. ✖ a hydroxide donor.

3. ✖ an electron-pair acceptor.

4. ✔ a proton acceptor.

Question Number : 33 Question Id : 28393610273 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

The factor(s), that are not affecting the chemical equilibrium is/are

Options :

1. ✖ pressure changes

2. ✖ Concentration changes

3. ✖ Temperature

4. ✔ Inert gas / catalyst

Question Number : 34 Question Id : 28393610274 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

Which is the main component of oxygen present in the mesosphere

Options :

1. ✖ Ozone

2. ✖ PAN

3. ✖ Smog

4. ✔ atomic oxygen

Question Number : 35 Question Id : 28393610275 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

Photochemical smog is caused by the action of solar ultraviolet radiation on atmosphere polluted with

Options :

1. ✔ hydrocarbons and oxides of nitrogen.

2. ✖ black carbon

3. ✖ Particulate matter

4. ✖ RSPM

Question Number : 36 Question Id : 28393610276 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

Soil formation process is called

Options :

1. ✔ pedogenesis

2. ✖ glycolysis

3. ✖ acidogenesis

4. ✖ acetogenesis

Question Number : 37 Question Id : 28393610277 Question Type : MCQ Option Shuffling : Yes

Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

Preservation and protection of endangered species away from their natural place in nurseries and zoos is called

Options :

1. ✖ in situ conservation

2. ✔ ex situ conservation

3. ✖ biodiversity

4. ✖ hotspot

Question Number : 38 Question Id : 28393610278 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

Which of the following is not a greenhouse gas?

Options :

1. ✖ fluorinated gases

2. ✖ water vapour

3. ✖ SF_6

4. ✔ Nitrogen

Question Number : 39 Question Id : 28393610279 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

Which is a macronutrient?

Options :

1. ✔ carbohydrates

2. ✖ boron

3. ✖ copper

4. ✖ zinc

Question Number : 40 Question Id : 28393610280 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

N_2 and O_2 in the natural air at normal temperatures do not react to form oxides of nitrogen because

Options :

1. ✖ oxides of nitrogen are unstable

2. ✖ catalyst is required for the reaction

3. ✔ the reaction is endothermic

4. ✖ the reaction is fast

Question Number : 41 Question Id : 28393610281 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

DDT is a

Options :

1. ✖ Nitrogen containing insecticide

2. ✖ Biodegradable pollutant

3. ✔ Non-Biodegradable pollutant

4. ✖ An antibiotic

Question Number : 42 Question Id : 28393610282 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

Which of the following fertilizers usage cause the soil acidity?

Options :

1. ✖ Potassium nitrate

2. ✖ Superphosphate of lime

3. ✔ Ammonium sulphate

4. ✖ Urea

Question Number : 43 Question Id : 28393610283 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

High nitrate levels in drinking water pose a health risk to infants because they may cause

Options :

1. ✔ Methemologlobinemia

2. ✖ Emphysema

3. ✖ Non-Hodgkin's Lymphom

4. ✖ Anemia

Question Number : 44 Question Id : 28393610284 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

BOD is a measure of

Options :

1. ✔ Organic matter in water

2. ✖ Kjeldahl nitrogen in water

3. ✖ Organic phosphates in water

4. ✖ Ammonia in water

Question Number : 45 Question Id : 28393610285 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

Acid rain is formed due to the reaction between ————

Options :

1. ✖ SF6 and water vapor

2. ✖ Carbon monoxide and water

3. ✔ Oxides of Sulfur and Nitrogen with water vapor

4. ✖ Nitrogen gas with water vapor

Question Number : 46 Question Id : 28393610286 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

Which is not a secondary storage device for a computer system?

Options :

1. ✖ Pendrive

2. ✔ Internal Hard drive

3. ✖ CDs

4. ✖ DVDs

Question Number : 47 Question Id : 28393610287 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

How can you speed up your computer system?

Options :

1. ✖ by adding more files

2. ✖ by saving files on desktop

3. ✖ by shutting down

4. ✔ Addition of RAM

Question Number : 48 Question Id : 28393610288 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

What is the use of randomized algorithm?

Options :

1. ✖ To increase the run time efficiently

2. ✖ It helps in getting biased solution

3. ✖ To increase space complexity

4. ✔ To reduce the memory use

Question Number : 49 Question Id : 28393610289 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

What for a flow chart is used in a programming?

Options :

1. ✖ To set the procedure stepwise

2. ✔ Graphically represent the steps of a programming

3. ✖ Only to describe process in computer domain

4. ✖ Same use as algorithm

Question Number : 50 Question Id : 28393610290 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

Which of the following is not a programming language?

Options :

1. ✖ Python

2. ✖ Java

3. ✖ C++

4. ✔ Android OS

Question Number : 51 Question Id : 28393610291 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

Which operating system is most widely used in computers?

Options :

1. ✖ Linux

2. ✔ Microsoft Windows

3. ✖ Android

4. ✖ Ubuntu

Question Number : 52 Question Id : 28393610292 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

Why #include is used in C++?

Options :

1.

✖ at the end

2. ✖ common structure for all programming languages

3. ✖ To print the result

4. ✔ To access library functions

Question Number : 53 Question Id : 28393610293 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

Int store integers are variable in C++

Options :

1. ✔ True

2. ✖ False

3. ✖ Not applicable

4. ✖ Not always

Question Number : 54 Question Id : 28393610294 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

How to denote a constant in C++?

Options :

1. ✖ Given as input

2. ✔ define as a fixed value before the execution

3. ✖ values can be varied

4. ✖ Declaring as a register variable

Question Number : 55 Question Id : 28393610295 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

A logical expression in a programming tells you about

Options :

1. ✔ Whether the statement is true or false

2. ✖ to execute

3. ✖ to stop and return

4. ✖ To repeat a set of statements

Question Number : 56 Question Id : 28393610296 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

What is the purpose of EIA?

Options :

1. ✖ Energy impact assessment

2. ✖ To promote industrialization

3. ✖ To enhance resource utilization

4. ✔ To promote sustainable development

Question Number : 57 Question Id : 28393610297 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

Screening is one of primary stage in

Options :

1. ✔ EIA

2. ✖ Energy audit

3. ✖ EMP

4. ✖ Environmental audit

Question Number : 58 Question Id : 28393610298 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

Which one of these is the first step for an Environment Management Plan?

Options :

1. ✔ commitment and policy making

2. ✖ Evaluation

3. ✖ Execution

4. ✖ Implementation

Question Number : 59 Question Id : 28393610299 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

What are the major causes of Global warming

Options :

1. ✖ Reduction of fluorinated gases

2. ✖ Soil conservation

3. ✖ Afforestation

4. ✔ Increasing the energy utilization

Question Number : 60 Question Id : 28393610300 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time

: N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

Climate change is a long-term overall phenomena of changing weather pattern, that lead to

Options :

1. ✔ Droughts, tropical storms

2. ✖ Droughts only

3. ✖ Droughts, tropical storms, glacier melting

4. ✖ Temperature rise

Question Number : 61 Question Id : 28393610301 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

Chernobyl disaster is a kind of

Options :

1. ✖ Chemical disaster

2. ✖ Natural, geological

3. ✖ Biological

4. ✔ Manmade nuclear accident

Question Number : 62 Question Id : 28393610302 Question Type : MCQ Option Shuffling : Yes

Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

Kedarnath disaster in 2013 is the one of the worst disaster of India caused by

Options :

1. ✖ Volcanic eruption

2. ✖ Tsunami

3. ✖ Earthquake

4. ✔ Cloudburst & landslide

Question Number : 63 Question Id : 28393610303 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

Main key components of Kyoto protocol (1997) are

Options :

1. ✖ encouraging the usage of conventional fuels

2. ✖ to enhance the industrialization capability

3. ✖ restricting the usage of CFCs

4. ✔ to restrict the human made CO_2 emissions

Question Number : 64 Question Id : 28393610304 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

How many Sustainable Development Goals are we dealing with for a better future of the world

Options :

1. ✖ 19

2. ✔ 17

3. ✖ 20

4. ✖ 169

Question Number : 65 Question Id : 28393610305 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

EIA methodologies include

Options :

1. ✖ RSM method

2. ✖ Rapid method

3. ✖ Random method

4. ✔ Checklist method

Question Number : 66 Question Id : 28393610306 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

Which of the following membrane filter has least pore size?

Options :

1. ✔ Reverse osmosis (RO)

2. ✖ Microfiltration

3. ✖ Ultrafiltration

4. ✖ Nanofiltration

Question Number : 67 Question Id : 28393610307 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

What are the treatment technologies available to remove pathogens from water

Options :

1. ✖ sedimentation

2. ✖ sand filtration

3. ✖ coagulation

4. ✔ Membrane filtration

Question Number : 68 Question Id : 28393610308 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

Which of the following parameters is used to determine the wastewater characteristics?

Options :

1. ✖ SPM

2. ✔ COD

3. ✖ Cation exchange capacity

4. ✖ Temperature

Question Number : 69 Question Id : 28393610309 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

Grit removal is a type of _____ settling

Options :

1. ✖ Flocculent

2. ✔ Discrete

3. ✖ Compressed

4. ✖ Coagulated

Question Number : 70 Question Id : 28393610310 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

Oxygen in aeration ponds for biological treatment acts as

Options :

1. ✔ Electron acceptor

2. ✖ Electron donor

3. ✖ Proton donor

4. ✖ Proton acceptor

Question Number : 71 Question Id : 28393610311 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

What is the best way to manage biodegradable municipal solid waste?

Options :

1. ✔ Composting

2. ✖ Aerobic digestion

3. ✖ Chemical treatment

4. ✖ Segregation

Question Number : 72 Question Id : 28393610312 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

Which of the following units can be used to control the particulate matter emissions from stack?

Options :

1. ✖ incineration

2. ✖ catalytic oxidation

3. ✖ absorption

4. ✔ Electrostatic precipitator

Question Number : 73 Question Id : 28393610313 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

SOx emissions from industries can be controlled effectively by

Options :

1. ✔ Lime scrubbing

2. ✖ incineration

3. ✖ catalytic oxidation

4. ✖ Chimney height

Question Number : 74 Question Id : 28393610314 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

Volatile Organic Carbon (VOC) emissions from exhaust gases can be controlled by

Options :

1. ✖ Cyclone seperator

2. ✖ ESPs

3. ✖ Scrubbing

4. ✔ Thermal incinerators

Question Number : 75 Question Id : 28393610315 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

Most suitable equipment for ambient air sampling is

Options :

1. ✔ High volume air sampler

2. ✖ Tedlar Bags

3. ✖ Canisters

4. ✖ Filter papers

Question Number : 76 Question Id : 28393610316 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

As per ISI standards the pH range of drinking water is

Options :

1. ✔ 6.5 – 8.5

2. ✖ 7 – 8

3. ✖ 4 – 6

4. ✖ 3.5 – 5.5

Question Number : 77 Question Id : 28393610317 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

Highway noise pollution can be controlled by

Options :

1. ✔ By blocking the direct travel of sound waves from the source

2. ✖ Without blocking the path of noise

3. ✖ Reducing the path length of noise

4. ✖ Planting small plants along the highways

Question Number : 78 Question Id : 28393610318 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

How can you supply oxygen to aeration ponds in biological treatment plant?

Options :

1. ✖ Addition of urea

2. ✖ Addition of peroxides

3. ✖ Addition of potassium permanganate

4. ✔ Surface Aerators

Question Number : 79 Question Id : 28393610319 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

What is the maximum permissible sound limit for festivals and entertainment events as per WHO guidelines?

Options :

1. ✖ 75 dB

2. ✔ 100 dB

3. ✖ 65 dB

4. ✖ 85dB

Question Number : 80 Question Id : 28393610320 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

Which device is used in noise level detection meter

Options :

1. ✖ Microphone

2. ✖ Earphone

3. ✖ Telephone

4. ✔ Decibel meter

Question Number : 81 Question Id : 28393610321 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

Mechanism of convective precipitation is

Options :

1. ✖ Frontal mechanism

2. ✖ Air mass passing over the mountain region and getting cooled.

3. ✔ Rising of moist air due to surface heating.

4. ✖ Cooler air mass forms wedge and lifts the warm air mass.

Question Number : 82 Question Id : 28393610322 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

Phenomenon of transpiration is defined as

Options :

1. ✖ Evaporation of water from water bodies or soil.

2. ✔ Loss of water through stomata of leafs.

3. ✖ Causes plants to turn green when there is sunlight.

4. ✖ Evaporation of water through soil and leaves of plants growing on it.

Question Number : 83 Question Id : 28393610323 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

Identify the non-recording type rain gauge

Options :

1. ✖ Tipping bucket type

2. ✖ Floating or natural syphon type rain gauge.

3. ✔ Symon's rain gauge

4. ✖ Weighing bucket

Question Number : 84 Question Id : 28393610324 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

Water budget equation for a catchment area in terms of rainfall (P), runoff (R), evaporation (E) and storage (S) is

Options :

1. ✖ $P = R - E \pm \Delta S$

2. ✖ $R = P + E - \Delta S$

3. ✔ $P = R + E \pm \Delta S$

4. ✖ $R = P - E \pm \Delta S$

Question Number : 85 Question Id : 28393610325 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

Infiltration capacity of soil is not affected by

Options :

1. ✖ Rainfall intensity

2. ✖ Soil moisture

3. ✖ Depth of surface retention

4. ✔ Distance from sea

Question Number : 86 Question Id : 28393610326 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

Contour of equal rainfall depths is known as

Options :

1. ✖ Isonif

2. ✖ Isopleths

3. ✔ Isohyets

4. ✖ Isotherms

Question Number : 87 Question Id : 28393610327 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

Which of the following is defined as the rate of rainfall above which the rainfall volume equals the runoff volume

Options :

1. ✖ W index

2. ✖ Runoff coefficient

3. ✖ Basin recharge

4. ✔ Φ index

Question Number : 88 Question Id : 28393610328 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

Which of the following equation represents Horton's infiltration capacity?

Options :

1. ✖ $f = f_c + [f_c - f_0] e^{-kt}$

2. ✖ $f = f_c - [f_c - f_0] e^{-kt}$

3. ✖ $f = f_c - [f_0 + f_c] e^{-kt}$

4. ✔ $f = f_c + [f_0 - f_c] e^{-kt}$

Question Number : 89 Question Id : 28393610329 Question Type : MCQ Option Shuffling : Yes

Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

Which one of the following is an accurate instrument for measuring stream velocity?

Options :

1. ✔ Current meter

2. ✖ Surface float

3. ✖ Twin float

4. ✖ Partially submerged rod

Question Number : 90 Question Id : 28393610330 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

The instrument used for measuring evaporation is

Options :

1. ✖ hydrometer

2. ✖ lysimeter

3. ✔ atmometer

4. ✖ luxmeter

Question Number : 91 Question Id : 28393610331 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

Specific yield of an unconfined aquifer is given by

Options :

1. ✔ Ratio of volume of water extracted to the volume of aquifer.

2. ✖ Product of volume of aquifer to the volume of water extracted.

3. ✖ Ratio of volume of water extracted to the surface area of aquifer.

4. ✖ Volume of water extracted for unit drawdown.

Question Number : 92 Question Id : 28393610332 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

Which of the following equation defines transmissivity of confined aquifer?

Options :

1. ✔ $T = KB$

2. ✖ $T = \frac{K}{B}$

3. ✖ $T = \frac{B}{K}$

4. ✖ $T = (BK)^2$

Question Number : 93 Question Id : 28393610333 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

Geological formation which yields high amount of discharge is

Options :

1. ✔ Aquifer

2. ✖ Aquiclude

3. ✖ Aquitard

4. ✖ Aquifuge

Question Number : 94 Question Id : 28393610334 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

Relation between porosity (n), specific retention (S_r) and specific yield (S_y) is given by

Options :

1. ✔ $S_y = n - S_r$

2. ✖ $S_y - S_r = n$

3. ✖ $n = S_y / S_r$

4. ✖ $S_y * S_r = n$

Question Number : 95 Question Id : 28393610335 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

Which of the following is not an assumption of Darcy's law

Options :

1. ✖ Flow through soil is laminar

2. ✖ Flow is continuous and steady

3. ✖ Soil is fully saturated

4. ✔ Soil porosity is non-uniform

Question Number : 96 Question Id : 28393610336 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

Discharge per unit surface area of confined aquifer for unit drawdown of hydraulic head is defined as

Options :

1. ✔ Storativity

2. ✖ Porosity

3.

✖ Specific retention

4. ✖ Specific capacity

Question Number : 97 Question Id : 28393610337 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

Relation between Actual velocity of seepage (V_a) and apparent velocity of seepage(V) is given by

Options :

1. ✔ $V_a = \frac{V}{n}$

2. ✖ $V_a = V.n$

3. ✖ $V = -\frac{V_a}{n}$

4. ✖ $V = V_a$

Question Number : 98 Question Id : 28393610338 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

In which aquifer, ground water is under pressure greater than hydrostatic pressure?

Options :

1. ✔ Confined aquifer

2. ✖ Unconfined aquifer

3. ✖ Aquifuge

4. ✖ Aquitard

Question Number : 99 Question Id : 28393610339 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

Discharge per unit drawdown is called as

Options :

1. ✔ Specific capacity

2. ✖ Porosity

3. ✖ Specific yield

4. ✖ Specific retention

Question Number : 100 Question Id : 28393610340 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

Actual evaporation is given by

Options :

1. ✔ Product of pan evaporation and coefficient of pan evaporation

2. ✖ Ratio of pan evaporation to the coefficient of pan evaporation

3. ✖ Ratio of coefficient of pan evaporation to the pan evaporation

4. ✖ Sum of pan evaporation and coefficient of pan evaporation

Question Number : 101 Question Id : 28393610341 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

Coefficient of U.S.W.B class A pan is

Options :

1. ✖ 0.9

2. ✔ 0.7

3. ✖ 0.78

4. ✖ 0.8

Question Number : 102 Question Id : 28393610342 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

Identify the limitation of Dupit's law for steady state radial flow into wells

Options :

1. ✖ Well does not receive water from entire thickness of aquifer

2. ✖ Flow is assumed to be laminar, but the flow near to the well is no longer laminar.

3. ✖ The flow remains horizontal in all sections of the aquifer.

4. ✔ Ground water discharge is proportional to the saturated aquifer thickness

Question Number : 103 Question Id : 28393610343 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

Darcy's law for Hydrogeology to describe the movement of water through an aquifer is

Options :

1. ✖ $Q = \frac{k}{A}$

2. ✔ $Q = kiA$

3. ✖ $Q = \frac{ki}{A}$

4. ✖ $Q = kA$

Question Number : 104 Question Id : 28393610344 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time

: N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

If subsoil is formed of gravel or coarse sand deposits, which of the following type of open well is suitable for this condition?

Options :

1. ✔ Wells with pervious lining

2. ✖ Unlined wells

3. ✖ Wells with impervious lining

4. ✖ Temporary wells

Question Number : 105 Question Id : 28393610345 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

Which of the following comes under direct surface technology for artificial ground water recharge?

Options :

1. ✖ Borehole flooding

2. ✖ Dug well recharge

3. ✔ Stream augmentation

4. ✖ Recharge pits and shafts

Question Number : 106 Question Id : 28393610346 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

Compared to shallow well, a deep well

Options :

1. ✖ is structurally weaker

2. ✔ has more discharge

3. ✖ is structurally strong

4. ✖ has less discharge

Question Number : 107 Question Id : 28393610347 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

Surface joining the static water levels in several wells penetrating a confined aquifer represents

Options :

1. ✖ Water table surface

2. ✔ Piezometric surface of the aquifer

3. ✖ Cone of depression

4. ✖ Capillary fringe

Question Number : 108 Question Id : 28393610348 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

Water available in unit volume of aquifer against gravity is called

Options :

1. ✔ Specific retention

2. ✖ Specific yield

3. ✖ Specific capacity

4. ✖ Storativity

Question Number : 109 Question Id : 28393610349 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

Which of the following factors does not affect permeability of the soil?

Options :

1. ✖ Void ratio

2. ✖ Grain size of soil particles

3. ✔ Volume of soil

4. ✖ Porosity

Question Number : 110 Question Id : 28393610350 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

Ditch and furrow system of ground water recharge method is an example of

Options :

1. ✔ Direct surface techniques

2. ✖ Indirect techniques

3. ✖ Combination of surface and sub-surface techniques

4. ✖ Direct sub-surface techniques

Question Number : 111 Question Id : 28393610351 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

What is the special feature of igneous rock

Options :

1. ✖ It forms multilayers

2. ✖ It contains fossil deposits

3. ✖ Contains one type of mineral

4. ✔ does not react with acids.

Question Number : 112 Question Id : 28393610352 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

How can you distinguish one classification of rock to another?

Options :

1. ✔ texture and composition

2. ✖ melting point

3. ✖ cooling point

4. ✖ color & size

Question Number : 113 Question Id : 28393610353 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

Which of the following is largest geomorphic agent?

Options :

1. ✖ Ice

2. ✔ Running water

3. ✖ Wind

4. ✖ Humans

Question Number : 114 Question Id : 28393610354 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

Which of the following is a endogenic geomorphic process.

Options :

1. ✖ mining

2. ✖ deforestation

3. ✖ urban planning

4. ✔ Earthquake

Question Number : 115 Question Id : 28393610355 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

Satellite that relays and amplifies radio telecommunication signals is

Options :

1. ✖ Relay satellites

2. ✔ Communication satellites

3. ✖ Repeater satellites

4. ✖ Geosynchronous satellites

Question Number : 116 Question Id : 28393610356 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

A map with Closely spaced contours represents

Options :

1. ✖ Gentle slopes

2. ✔ Steep slopes

3. ✖ Concave slopes

4. ✖ Convex slopes

Question Number : 117 Question Id : 28393610357 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

Which surveying technique considers the shape of the earth?

Options :

1. ✖ Topographic Surveying

2. ✖ Hydrographic Surveying

3. ✔ Geodetic Surveying

4. ✖ Plane Surveying

Question Number : 118 Question Id : 28393610358 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

_____ range of electromagnetic radiation is useful for Passive remote sensing

Options :

1. ✔ Visible

2. ✖ X-ray

3. ✖ UV light

4. ✖ Microwaves

Question Number : 119 Question Id : 28393610359 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

Which of the following surveying methods is meant to be having high precision?

Options :

1. ✖ Terrestrial photogrammetry

2. ✖ Traverse surveying

3. ✖ Theodolite surveying

4. ✔ Aerial photogrammetry

Question Number : 120 Question Id : 28393610360 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

Which of the following sensors were used in the IRS 1A and 1B satellites

Options :

1. ✖ LISS-IV

2. ✔ LISS-I

3. ✖ LISS-III

4. ✖ LISS-V