

Telangana State Council Higher Education

Notations :

- Options shown in **green** color and with **✓** icon are correct.
- 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. $f(x) = \begin{cases} ax^3, & 0 \leq x < 1 \\ 0 & \text{elsewhere} \end{cases}$.

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-positvie 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. ✗ phytoplankton

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. ✖ SF₆
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. ✔ Methemoglobinemia

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 CO₂ 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

SO_x 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 separator

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