

**Question Paper Name:** Environmental Management 31th May 2019 Shift 1  
**Subject Name:** Environmental Management  
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Environmental Management

**Group Number :** 1  
**Group Id :** 39090052  
**Group Maximum Duration :** 0  
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**Revisit allowed for edit? :** No  
**Break time:** 0  
**Group Marks:** 120

Mathematics

**Section Id :** 39090096  
**Section Number :** 1  
**Section type :** Online  
**Mandatory or Optional:** Mandatory  
**Number of Questions:** 10  
**Number of Questions to be attempted:** 10  
**Section Marks:** 10  
**Display Number Panel:** Yes  
**Group All Questions:** No

**Sub-Section Number:** 1  
**Sub-Section Id:** 39090096  
**Question Shuffling Allowed :** Yes

**Question Number : 1 Question Id : 3909006121 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes**  
**Single Line Question Option : No Option Orientation : Vertical**

**Correct Marks : 1 Wrong Marks : 0**

If  $\alpha, \beta$  are the roots of  $ax^2 + bx + c = 0$  then  $\alpha^3 + \beta^3$  is equal to ...

**Options :**

1. 
$$\frac{3abc + b^3}{a^3}$$

2. 
$$\frac{3abc - b^3}{a^3}$$

3. 
$$\frac{2ac - b^2}{c^2}$$

4. 
$$\frac{b^2 - 2ac}{c^2}$$

Question Number : 2 Question Id : 3909006122 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical  
Correct Marks : 1 Wrong Marks : 0

If second term of a G.P is 24 and fifth term is 81 then the first term is ...

Options :

1. 20

2. 18

3. 16

4. 14

Question Number : 3 Question Id : 3909006123 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical  
Correct Marks : 1 Wrong Marks : 0

The number of arrangements that can be formed by taking all the letters  
 $\{T, U, E, S, D, A, Y\}$ ...

Options :

1. 2040

2. 5040

3. 1200

4. 4020

Question Number : 4 Question Id : 3909006124 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

$$\begin{vmatrix} 2015 & 2016 & 2017 \\ 2016 & 2017 & 2018 \\ 2017 & 2018 & 2019 \end{vmatrix} = \dots$$

Options :

1. 2017
2. 2018
3. 2019
4. 0

Question Number : 5 Question Id : 3909006125 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

A dice is tossed thrice. If getting a four is considered a success. The mean of the probability distribution of number of successes is ...

Options :

1.  $\frac{1}{6}$
2.  $\frac{1}{3}$
3.  $\frac{1}{2}$
4.  $\frac{5}{6}$

Question Number : 6 Question Id : 3909006126 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Which of the following are the normal equations of the straight line  $y = a + bx \dots$

Options :

1.  $\sum xy = na + b \sum x, \sum xy = \sum x + \sum x^2$
2.  $\sum y = ax + b \sum x^2, \sum xy = a \sum x + b \sum x^2$
3.  $\sum y = a + b \sum x, \sum y = a \sum x + b \sum x^2$
4.  $\sum y = na + b \sum x, \sum xy = a \sum x + b \sum x^2$

Question Number : 7 Question Id : 3909006127 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

If the probability density function of a random variable is given by

$$f(x) = \begin{cases} \frac{1}{2} \sin x, & 0 \leq x \leq \pi \\ 0, & \text{otherwise} \end{cases} \text{ then the mean of the distribution is ...}$$

Options :

1. 0
2.  $\frac{\pi}{2}$
3.  $2\pi$
4.  $\frac{1}{2}$

Question Number : 8 Question Id : 3909006128 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Chi-square ( $\chi^2$ ) distribution is used to test the

Options :

1. significance of sample variance

2. independence of attributes in a contingency table

3. goodness of fit

4. significance of sample variance, independence of attributes in a contingency table and goodness of fit

Question Number : 9 Question Id : 3909006129 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

If  $A = \begin{bmatrix} a & b \\ b & a \end{bmatrix}$  and  $A^2 = \begin{bmatrix} \alpha & \beta \\ \beta & \alpha \end{bmatrix}$  then ...

Options :

1.  $\alpha = 2ab, \beta = a^2 + b^2$

2.  $\alpha = a^2 + b^2, \beta = a^2 - b^2$

3.  $\alpha = a^2 + b^2, \beta = 2ab$

4.  $\alpha = a^2 + b^2, \beta = ab$

Question Number : 10 Question Id : 3909006130 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Mean and standard deviation of a random variable  $X$  are 5 and 4 respectively then

$E(X^2) = \dots$

Options :

1. 16

2. 25

3. 9

4. 5

Environmental Management

Section Id :	39090097
Section Number :	2
Section type :	Online
Mandatory or Optional:	Mandatory
Number of Questions:	110
Number of Questions to be attempted:	110
Section Marks:	110
Display Number Panel:	Yes
Group All Questions:	No

Sub-Section Number:	1
Sub-Section Id:	39090097
Question Shuffling Allowed :	Yes

Question Number : 11 Question Id : 3909006131 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical  
Correct Marks : 1 Wrong Marks : 0

Who among the following is called the father of computer?

Options :

1. William Oughtred
2. Dennis Ritchie
3. Charles Babbage
4. Ken Thompson

Question Number : 12 Question Id : 3909006132 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical  
Correct Marks : 1 Wrong Marks : 0

A programming style that does not include any shortcuts to improve performance, but instead relies on sheer computing power to try all possibilities until the solution to a problem is found is called

Options :

1. Recursive algorithm

2. Greedy algorithm
3. Backtracking algorithm
4. Brute Force algorithm

Question Number : 13 Question Id : 3909006133 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Nibble is a series of \_\_\_\_\_ bits

Options :

1. 4
2. 8
3. 6
4. 16

Question Number : 14 Question Id : 3909006134 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

What will be the output of the following C code?

```
1. #include <stdio.h>
2. struct student
3. {
4.     char *name;
5. };
6. struct student s;
7. struct student fun(void)
8. {
9.     s.name = "newton";
10.    printf("%s\n", s.name);
11.    s.name = "alan";
12.    return s;
13. }
14. void main()
15. {
16.    struct student m = fun();
17.    printf("%s\n", m.name);
18.    m.name = "turing";
19.    printf("%s\n", s.name);
20. }
```

Options :

1. newton alan alan
2. alan newton alan
3. alan alan newton
4. compile time error

Question Number : 15 Question Id : 3909006135 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Which was the first purely object oriented programming language developed?

Options :

1. Java

2. C++
3. SmallTalk
4. Kotlin

Question Number : 16 Question Id : 3909006136 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

The OS that allows different parts of a single program to run concurrently is called

Options :

1. Multiprogram
2. Multiprocessing
3. Multithreading
4. Multi-user

Question Number : 17 Question Id : 3909006137 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Choose the correct option as an inference from the following workspace view

Workspace			
Name ▲	Value	Size	Bytes
ans	3.1416	1x1	8
ap	1x1 sym	1x1	112
c	'pi'	1x2	4
p	10	1x1	8

Options :

1. 'ans', 'p' and 'ap' are double variables
2. 'ans' and 'p' are double variables while 'c' is a character variable
3. 'ap' is symbolic object, 'c' is a double variable
4. 'c' is a symbolic character

Question Number : 18 Question Id : 3909006138 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical  
Correct Marks : 1 Wrong Marks : 0

The ~ is

Options :

1. Quaternary operator
2. Relational Operator
3. Arithmetic Operator
4. Unary Operator

Question Number : 19 Question Id : 3909006139 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical  
Correct Marks : 1 Wrong Marks : 0

Competition for light, nutrients and space is most severe between

Options :

1. closely related organisms growing in different niches
2. closely related organisms growing in the same area/niche
3. distantly related organisms growing in the same habitat
4. distantly related organisms growing in different niches.

Question Number : 20 Question Id : 3909006140 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical  
Correct Marks : 1 Wrong Marks : 0

In a true ecosystem

Options :

1. primary consumers are least dependent upon producers
2. primary consumers out-number producers
3. producers are more than primary consumers
4. secondary consumers are the largest and most powerful.

Question Number : 21 Question Id : 3909006141 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical  
Correct Marks : 1 Wrong Marks : 0

Gas released during Bhopal tragedy was

Options :

1. methyl isocyanate
2. potassium isothiocyanate
3. sodium isothiocyanate
4. ethyl isothiocyanate.

Question Number : 22 Question Id : 3909006142 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical  
Correct Marks : 1 Wrong Marks : 0

Homeostasis refers to the

Options :

1. tendency of biological systems to change with change in environment
2. tendency of biological systems to resist change and maintain a constant internal environment

3. disturbance in the self regulatory system and natural controls

4. biotic materials used in homeopathic medicines

Question Number : 23 Question Id : 3909006143 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Food chain in which microorganisms breakdown the food formed by primary producers is termed

Options :

1. parasitic food chain

2. detritus food chain

3. consumer food chain

4. predator food chain

Question Number : 24 Question Id : 3909006144 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

The disease caused by the consumption of fish contaminated by mercury compounds is called

Options :

1. Osteosclerosis

2. Hashimoto's oxidase

3. Bright's disease

4. Minimata disease

Question Number : 25 Question Id : 3909006145 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Which of the following pairs is a sedimentary type of biogeochemical cycle?

Options :

1. phosphorus and nitrogen
2. phosphorus and sulphur
3. oxygen and nitrogen
4. phosphorus and carbon dioxide

Question Number : 26 Question Id : 3909006146 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

The mottling of teeth is attributed to the long term drinking of water containing excess amounts of

Options :

1. fluorine
2. boron
3. mercury
4. chlorine

Question Number : 27 Question Id : 3909006147 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

The 10% energy transfer theory of food chain was propounded by

Options :

1. Lindemann
2. Tansley

3. Stanley

4. Weismann

Question Number : 28 Question Id : 3909006148 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

The fact that no two species can co-exist for long duration in the same niche or habitat is explained by

Options :

1. Allen's law

2. Gause's hypothesis

3. Dollo's rule

4. Weisman's theory

Question Number : 29 Question Id : 3909006149 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Which one of the following statements is correct?

Options :

1. *Azotobacter* sp. fixes atmospheric nitrogen in root nodules of plants

2. Species of *Anabaena* is an important mobilizer of phosphates for plants

3. Maize cultivation warrants the use of chemical fertilizers

4. Excessive influx of chemical fertilizers may lead to eutrophication of water bodies

Question Number : 30 Question Id : 3909006150 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

If the mean and the median pertaining to a certain character of a population are of the same value, which of the following is most likely to occur?

Options :

1. Bi-modal distribution
2. T-shaped curve
3. Skewed curve
4. Normal distribution

Question Number : 31 Question Id : 3909006151 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

The most common indicator organism that represents polluted water is

Options :

1. *Vibrio cholerae*
2. *Entamoeba histolytica*
3. *Escherichia coli*
4. *Salmonella enterica*

Question Number : 32 Question Id : 3909006152 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Lipopolysaccharide in cell walls is characteristic of

Options :

1. Gram-positive bacteria
2. Gram-negative bacteria

3. Fungi

4. Algae

Question Number : 33 Question Id : 3909006153 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

In fluorescence microscopy, which of the following filters all but the blue light?

Options :

1. Exciter filter
2. Barrier filter
3. Dichoric mirror
4. Mercury arc lamp

Question Number : 34 Question Id : 3909006154 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

$K_{eq}$  is greater than 1.0 when

Options :

1. standard free energy change is negative
2. standard free energy change is positive
3. chemical reaction proceeds in reverse direction
4. products are not formed

Question Number : 35 Question Id : 3909006155 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Vaccination was invented by

Options :

1. Jenner
2. Pasteur
3. Watson
4. Crick

Question Number : 36 Question Id : 3909006156 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

The upper region of the trickling filter is favorable for the growth of

Options :

1. fungi
2. protozoa
3. algae
4. bacteria

Question Number : 37 Question Id : 3909006157 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Which of the following is used for the recovery of yeast cells?

Options :

1. Fermenter
2. Centrifuge
3. Filter press
4. Mash storage

Question Number : 38 Question Id : 3909006158 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Which of the following is characteristic of sanitizer?

Options :

1. Destroys all microbial forms
2. Prevents the growth or action of microorganisms
3. Reduces the microbial population to safe levels
4. Kills all the bacteria and the bacterial spores

Question Number : 39 Question Id : 3909006159 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Alginate acid is obtained from

Options :

1. Brown algae
2. Red algae
3. Yellow-green algae
4. Golden algae

Question Number : 40 Question Id : 3909006160 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

In which of the phase bacterial growth, the secondary metabolites are produced?

Options :

1. Lag phase
2. Log/Exponential phase

3. Stationary phase

4. Death phase

Question Number : 41 Question Id : 3909006161 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

The portion of the growth curve where a rapid growth of bacteria is observed is

Options :

1. Lag phase

2. Logarithmic phase

3. Stationary phase

4. Decline phase

Question Number : 42 Question Id : 3909006162 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Which bacteria appear purple-violet after staining?

Options :

1. Gram positive

2. Gram negative

3. Both Gram positive and Gram negative

4. Neither Gram positive nor Gram negative

Question Number : 43 Question Id : 3909006163 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Which of the following is used as media for fungal growth?

Options :

1. Nutrient broth
2. Luria-Bertani media
3. Potato Dextrose Agar (PDA) media
4. Mac Conkey Agar media

Question Number : 44 Question Id : 3909006164 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

In which one of the following the Biochemical Oxygen Demand of sewage (S), distillery effluent (DE), paper mill effluent (PE) and sugar mill effluent (SE) is arranged in an ascending order?

Options :

1.  $SE < PE < S < DE$
2.  $PE < S < SE < DE$
3.  $S < DE < PE < SE$
4.  $SE < S < PE < DE$

Question Number : 45 Question Id : 3909006165 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Photochemical smog pollution does not contain

Options :

1. Peroxy acyl nitrate
2. Ozone
3. Nitrogen dioxide

4. Carbon dioxide

Question Number : 46 Question Id : 3909006166 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Most hazardous metal pollutant of automobile exhausts is

Options :

1. Mercury

2. Cadmium

3. Lead

4. Copper

Question Number : 47 Question Id : 3909006167 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Aquatic weeds are used in controlling water pollution as

Options :

1. colour removers

2. biological filters

3. pH stabilizers

4. upgrading treatment units

Question Number : 48 Question Id : 3909006168 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Which of the following is a primary pollutant in atmospheric air?

Options :

1. Cl<sub>2</sub>

2. SO<sub>3</sub>

3. Nitrates

4. Sulphates

Question Number : 49 Question Id : 3909006169 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Mesothelioma is caused by toxicity of

Options :

1. Mercury

2. Lead

3. Arsenic

4. Carbon monoxide

Question Number : 50 Question Id : 3909006170 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Which of the following is designed to reduce the roadside noise?

Options :

1. Sound tube

2. Ear buds

3. Ear repellent

4. Noise repellent

Question Number : 51 Question Id : 3909006171 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Gases that contribute to the greenhouse effect on Earth are, in order of greatest to smallest in importance,

Options :

1.  $\text{CO}_2$ ,  $\text{H}_2\text{O}$ ,  $\text{CH}_4$
2.  $\text{H}_2\text{O}$ ,  $\text{CO}_2$ ,  $\text{CH}_4$
3.  $\text{CH}_4$ ,  $\text{CO}_2$ ,  $\text{H}_2\text{O}$
4.  $\text{H}_2\text{O}$ ,  $\text{CH}_4$ ,  $\text{CO}_2$

Question Number : 52 Question Id : 3909006172 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

The order of the atmospheric layers, starting from closest to the surface to the top of the atmosphere, is

Options :

1. Mesosphere, Troposphere, Thermosphere, Stratosphere
2. Troposphere, Stratosphere, Mesosphere, Thermosphere
3. Thermosphere, Mesosphere, Troposphere, Stratosphere
4. Troposphere, Mesosphere, Stratosphere, Thermosphere

Question Number : 53 Question Id : 3909006173 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

What is geostrophic balance?

Options :

1. The exact balance of incoming SW and outgoing LW radiation at the top of the atmosphere.
2. The exact balance of vertical pressure gradient and gravity in the atmosphere.

3. The exact balance of the Coriolis force, horizontal pressure gradient force and friction.

4. The exact balance of the Coriolis force and the horizontal pressure gradient force

Question Number : 54 Question Id : 3909006174 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Who discovered the ozone layer?

Options :

1. Henri son & Charles Fabry

2. Carl Sagan & Charles Fabry

3. G.M.B Dobson

4. Carl Sagan & G.M.B Dobson

Question Number : 55 Question Id : 3909006175 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Thermal pollution of water is mainly reflected by the

Options :

1. increase in the solubility of oxygen

2. decrease in the solubility of oxygen

3. significant increase in evaporation of water

4. decrease in dissolved salts

Question Number : 56 Question Id : 3909006176 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

What does the ratio of the mass of water vapour to mass of air indicate?

Options :

1. Absolute humidity
2. Specific humidity
3. Relative humidity
4. Approximate humidity

Question Number : 57 Question Id : 3909006177 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Choose the correct relationship between turbidity and TSS for a settled secondary effluent

Options :

1.  $TSS = (2.3) \times \text{Turbidity}$
2.  $TSS = (2.0) \times \text{Turbidity}$
3.  $TSS = (2.5) \times \text{Turbidity}$
4.  $TSS = (1.3) \times \text{Turbidity}$

Question Number : 58 Question Id : 3909006178 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

How is hardness of water represented?

Options :

1.  $\text{Hardness} = 2 (\text{Ca}^{2+}) + 2(\text{Mg}^{2+})$
2.  $\text{Hardness} = \text{Ca}^{2+} + 2 (\text{Mg}^{2+})$

3.  $\text{Hardness} = 3(\text{Ca}^{2+}) + \text{Mg}^{2+}$

4.  $\text{Hardness} = 3(\text{Ca}^{2+}) + 2(\text{Mg}^{2+})$

Question Number : 59 Question Id : 3909006179 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical  
Correct Marks : 1 Wrong Marks : 0

What is the mathematical expression of BOD?

Options :

1.  $\text{BOD} = [(D1-D2)-(B1-B2) f]/P.$

2.  $\text{BOD} = [(D1-D2)-(B1-B2) f]$

3.  $\text{BOD} = [(D1-D2) f]/P$

4.  $\text{BOD} = [(D1-D2)-(B1-B2)]/P$

Question Number : 60 Question Id : 3909006180 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical  
Correct Marks : 1 Wrong Marks : 0

During which of the following conditions, the de-oxygenation is equal to re-oxygenation in a polluted stream?

Options :

1. Stream exposed to atmosphere

2. Increase in volume of wastewater addition

3. Occurrence of floating green vegetation

4. High temperature in stream water

Question Number : 61 Question Id : 3909006181 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical  
Correct Marks : 1 Wrong Marks : 0

Which of the following is used in ceramic industries for controlling air pollution?

Options :

1. Electrostatic precipitator
2. Dynamic precipitator
3. Spray tower
4. Wet cyclonic scrubber

Question Number : 62 Question Id : 3909006182 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Which of the following air pollution control device has maximum efficiency?

Options :

1. Electrostatic precipitator
2. Dynamic precipitator
3. Spray tower
4. Wet cyclonic scrubber

Question Number : 63 Question Id : 3909006183 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Which of the following removes both gaseous and particulate contaminants?

Options :

1. Venturi scrubber
2. Gravitational settling chamber

3. Dynamic precipitator

4. Wet scrubber

Question Number : 64 Question Id : 3909006184 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

What is the intermediate zone composed of in aerobic-anaerobic ponds?

Options :

1. Algae

2. Aerobic bacteria

3. Facultative bacteria

4. Organic solids

Question Number : 65 Question Id : 3909006185 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

The function of automobile catalytic converter is to control the emission of

Options :

1. Carbon dioxide and Hydrogen

2. Carbon dioxide and Carbon monoxide

3. Carbon monoxide and Hydrogen

4. Hydrogen and Nitrogen oxides

Question Number : 66 Question Id : 3909006186 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

The maximum desirable limit of lead in drinking water fixed by the BIS is

Options :

1. 0.05 mg/L
2. 0.09 mg/L
3. 1.0 mg/L
4. 0.01mg/L

Question Number : 67 Question Id : 3909006187 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical  
Correct Marks : 1 Wrong Marks : 0

Zeolite softening process removes

Options :

1. only temporary hardness of water
2. only permanent hardness of water
3. both temporary and permanent hardness of water
4. the dissolved gases in hard water

Question Number : 68 Question Id : 3909006188 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical  
Correct Marks : 1 Wrong Marks : 0

The gas that may cause explosion in sewers, is

Options :

1. Carbon dioxide
2. Methane
3. Ammonia
4. Carbon monoxide

Question Number : 69 Question Id : 3909006189 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Plates move inside the earth towards each other in

Options :

1. compression boundary
2. conservative boundary
3. tensional boundary
4. divergent boundary

Question Number : 70 Question Id : 3909006190 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

The outer part of the mantle is the

Options :

1. Lithosphere
2. The Moho
3. Crust
4. Aesthenosphere

Question Number : 71 Question Id : 3909006191 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Volcanism does not usually occur

Options :

1. At hotspots
2. Along sea floor spreading centres

3. Along subduction boundaries where continental and oceanic plates collide
4. Along the convergent boundary where two continental plates collide

Question Number : 72 Question Id : 3909006192 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes  
 Single Line Question Option : No Option Orientation : Vertical  
 Correct Marks : 1 Wrong Marks : 0

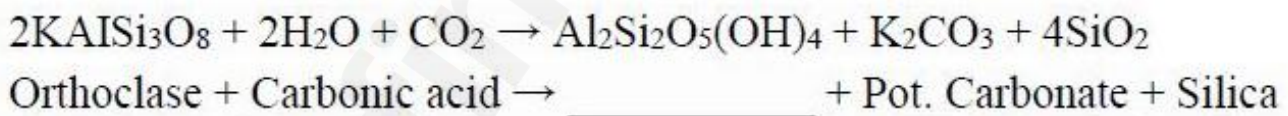
The earth's layer which does not transmit the S-waves is

Options :

1. Outer core
2. Crust
3. Mantle
4. Inner core

Question Number : 73 Question Id : 3909006193 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes  
 Single Line Question Option : No Option Orientation : Vertical  
 Correct Marks : 1 Wrong Marks : 0

Identify the mineral to be placed in the blank space of the equation



Options :

1. Illite
2. Kaolinite
3. Montmorillonite
4. Halloysite

Question Number : 74 Question Id : 3909006194 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Choose the correct statement regarding sedimentary current ripple marks

Options :

1. The rounded trough is convex toward the older beds
2. The rounded trough is convex toward the younger beds
3. The upper portion of the ripple mark indicates younger beds
4. The current marks cannot be used to determine top from bottom

Question Number : 75 Question Id : 3909006195 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

The part where the dam comes in contact with the ground on the upstream side is called

Options :

1. Heel
2. Toe
3. Abutment
4. Sluice

Question Number : 76 Question Id : 3909006196 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Rocks are formed due to alteration of original structure due to heat and excessive pressure are called as

Options :

1. Sedimentary rocks

2. Igneous rocks

3. Metamorphic rocks

4. Volcanic rocks

Question Number : 77 Question Id : 3909006197 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Himalayas is an example of

Options :

1. Fold mountains

2. Fault mountains

3. Rift valley

4. Wave deposition

Question Number : 78 Question Id : 3909006198 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Which of the following is not 'mechanical weathering'?

Options :

1. Carbonation

2. Temperature variation

3. Unloading

4. Insolation

Question Number : 79 Question Id : 3909006199 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Which among the following is called “Mushroom rocks”?

Options :

1. Pedestal rocks
2. Yardangs
3. Ventifacts
4. Desert pavements

Question Number : 80 Question Id : 3909006200 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

The windblown deposits of silt and clay grade particles are called

Options :

1. Dunes
2. Loess
3. Hills
4. Ventifacts

Question Number : 81 Question Id : 3909006201 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

The residual convexo-concave low hills known as ‘monanocks’, ‘unakas’ and ‘mosores’ are characteristic of

Options :

1. Peneplain

2. Gorges and Canyons

3. Angular boulders

4. Ox bow

Question Number : 82 Question Id : 3909006202 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Identify the following symbol



Options :

1. Well

2. Earthwork dam

3. Boundary pillar

4. Statue

Question Number : 83 Question Id : 3909006203 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

What does the inner orientation of camera define in photogrammetric imaging process?

Options :

1. Geometric parameters of the imaging process

2. Location of object points in space

3. View direction

## Finding fixed points

4.

Question Number : 84 Question Id : 3909006204 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Which one of the following defines properties for the map?

Options :

mapOptions

1.

Zoom

2.

Center

3.

mapTypeId

4.

Question Number : 85 Question Id : 3909006205 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Which instrument lets an operator see two photos at once?

Options :

Goniometer

1.

Collimator

2.

Theodolite

3.

Stereo plotter

4.

Question Number : 86 Question Id : 3909006206 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

That the induced emf in a material opposes the flux producing it is explained by the

Options :

1. Faraday law
2. Ampere law
3. Lenz law
4. Curie law

Question Number : 87 Question Id : 3909006207 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical  
Correct Marks : 1 Wrong Marks : 0

The energy in a magnetic material is due to which process?

Options :

1. Emf
2. Magnetization
3. Magnetostriction
4. Polarization

Question Number : 88 Question Id : 3909006208 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical  
Correct Marks : 1 Wrong Marks : 0

Repeaters inside communications satellites are known as

Options :

1. Transceivers
2. Transponders

3. Transducers

4. TWT

Question Number : 89 Question Id : 3909006209 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Which component of the satellite detects signal relayed from the feed and converts it to an electric current, amplifies and lowers its frequency?

Options :

1. Horn antenna

2. LNA

3. Satellite receiver

4. Satellite dish

Question Number : 90 Question Id : 3909006210 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

The portion of the electromagnetic spectrum occupied by a signal is called

Options :

1. Signal spectrum

2. Bandwidth

3. Frequency width

4. Signal strength

Question Number : 91 Question Id : 3909006211 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Which of the following marked the 100<sup>th</sup> satellite successfully put into orbit by the ISRO?

Options :

1. Cartosat-2F
2. Resourcesat 2A
3. Saral
4. Megha-Tropiques

Question Number : 92 Question Id : 3909006212 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

In remote sensing field, the portion of the Earth's surface that the sensor "sees" is called

Options :

1. Swath
2. Beam width
3. Look angle
4. Incident angle

Question Number : 93 Question Id : 3909006213 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

The period of time needed for a satellite to sense again the same area is called

Options :

1. Temporal Resolution

2. Spectral Resolution

3. Radiometric Resolution

4. Spatial Resolution

Question Number : 94 Question Id : 3909006214 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

To whom do you attribute the statement “*We walked on the moon with Neil Armstrong. We walked down the aisle with Prince Charles and Diana*”?

Options :

1. INTELSAT

2. PanAMSat

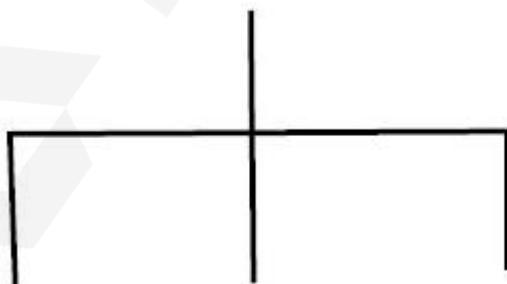
3. Telesat

4. MEASAT

Question Number : 95 Question Id : 3909006215 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

What does the following symbol represent?



Options :

1. Boundary pillar

2. Boundary pillars

3. Boundary marker

4. Church

Question Number : 96 Question Id : 3909006216 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

The boundary surface between the earth's crust and the mantle, lying at a depth of about 10–12 km under the ocean bed and 40–50 km under the continents is called

Options :

1. Crust-Mantle discontinuity

2. Oceanic discontinuity

3. SIAL discontinuity

4. Mohorovicic discontinuity

Question Number : 97 Question Id : 3909006217 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

The Reynolds number is a relevant number when describing

Options :

1. Open water evaporation

2. Transpiration through plant stomata

3. Percolation to the ground water

4. Discharge through open channels

Question Number : 98 Question Id : 3909006218 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

The amount of water stored in a river channel without any artificial storage is called

Options :

1. Bank storage
2. River storage
3. Valley storage
4. Dead storage

Question Number : 99 Question Id : 3909006219 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Under same environmental conditions, which of the following shape of water surface will exhibit highest rate of evaporation?

Options :

1. Flat
2. Concave
3. Convex
4. Undulating

Question Number : 100 Question Id : 3909006220 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

In the design of sedimentation of tank, the essential factor to be considered is

Options :

1. Surface loading
2. Depth of tank
3. Turbidity

4. Concentration of suspended solids

Question Number : 101 Question Id : 3909006221 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Water on the ground surface entering the soil is called

Options :

1. Infiltration
2. Transpiration
3. Filtration
4. Precipitation

Question Number : 102 Question Id : 3909006222 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

The energy input to the hydrological cycle is from

Options :

1. Wind
2. Water
3. Sun
4. Head

Question Number : 103 Question Id : 3909006223 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

The unit of expression for runoff is

Options :

1. Day-sec meter

2.  $m^2/s$

3.  $mm/s^2$

4.  $Ns/m^2$

Question Number : 104 Question Id : 3909006224 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical  
Correct Marks : 1 Wrong Marks : 0

Which of the following pair of countries has vast hydro resources?

Options :

1. Hungary and Luxemburg

2. India and china

3. Russia and Nepal

4. Japan and Georgia

Question Number : 105 Question Id : 3909006225 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical  
Correct Marks : 1 Wrong Marks : 0

The graph of the cumulative values of water quantity against time is called

Options :

1. Flow curve

2. Power curve

3. Mass curve

4. Load curve

Question Number : 106 Question Id : 3909006226 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical  
Correct Marks : 1 Wrong Marks : 0

The term stream gauging refers to the technique used to

Options :

1. Measure the discharge, or the volume of water moving through a channel per unit time, of a stream
2. Measure the Oxygen content of stream water
3. Compute the cross-section of a stream
4. Measure the depth of water in a stream

Question Number : 107 Question Id : 3909006227 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

A form of precipitation composed of small and semitransparent balls of ice is

Options :

1. Hail
2. Drizzle
3. Snow grains
4. Sleet

Question Number : 108 Question Id : 3909006228 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

The quantity of water that can be withdrawn annually and also the rate at which this withdrawal could be made without adversely affecting the inventory of the aquifer is called

Options :

1. Annual yield
2. Percent yield

3. Operational yield

4. Monthly yield

Question Number : 109 Question Id : 3909006229 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

When an aquifer is used to artificially recharge by making it pass through an intervening layer, the aquifer acts as

Options :

1. A cooling agent

2. An aerating agent

3. An odour agent

4. A filter plant

Question Number : 110 Question Id : 3909006230 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

An associated problem of rising water-table is

Options :

1. Loss of nutrients

2. Loss of good quality of water

3. Salinity of water

4. Increase in turbidity

Question Number : 111 Question Id : 3909006231 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

What are the qualities required for glacial deposits to make good aquifers?

Options :

1. Uniform size and rounded nature
2. Non-uniform and angular nature
3. Uniform size and angular nature
4. Non-uniform and rounded nature

Question Number : 112 Question Id : 3909006232 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical  
Correct Marks : 1 Wrong Marks : 0

Which aquifer is called water table aquifer?

Options :

1. Unconfined aquifer
2. Confined aquifer
3. Ground aquifer
4. Connate aquifer

Question Number : 113 Question Id : 3909006233 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical  
Correct Marks : 1 Wrong Marks : 0

The speciality of the Artesian Water is that it

Options :

1. has a characteristic colour
2. has a characteristic odour
3. often requires no pumping

requires special type of pumping

4.

Question Number : 114 Question Id : 3909006234 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

The co-efficient of transmissibility (T) of an aquifer is given by the equation

Options :

1.  $T = b k$

1.

2.  $T = b/k$

2.

3.  $T = (b k)^2$

3.

4.  $T = k/b$

4.

Question Number : 115 Question Id : 3909006235 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

The water which is impossible to be removed from the soil is

Options :

1. Structural water

1.

2. Capillary water

2.

3. Solvate water

3.

4. Pore water

4.

Question Number : 116 Question Id : 3909006236 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

The inside shuttering of the well curb is made up of

Options :

1. Steel

1.

2. Wood
3. Brick masonry
4. Concrete

Question Number : 117 Question Id : 3909006237 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

A large watertight chamber, open at the bottom, from which the water is kept out by air pressure and in which construction work may be carried out under water is called

Options :

1. Cupola
2. Shell sunk
3. Caisson
4. Double-D

Question Number : 118 Question Id : 3909006238 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

The expert committee report "*Drowning a valley: Destroying a civilization*" is related to

Options :

1. Sardar Sarovar Dam
2. Hirakud Dam

3. Nagarjuna Sagar Dam

4. Alamatti

Question Number : 119 Question Id : 3909006239 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical  
Correct Marks : 1 Wrong Marks : 0

The first multipurpose river valley project of independent India is

Options :

1. Damodar Valley Project

2. Dhauliganga Project

3. Kakrapara Project

4. Chamera Hydro-Electric Project

Question Number : 120 Question Id : 3909006240 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical  
Correct Marks : 1 Wrong Marks : 0

As per Lacey's theory, the silt factor is

Options :

1. Directly proportional to average particle size

2. Inversely proportional to average particle size

3. Directly proportional to square root of average particle size

4. Not related to average particle size