

Question Paper Preview

Subject Name: Environmental Management

Display Number Panel: Yes
Group All Questions: No

Question Number : 1 Question Id : 7621611801 Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

In a comparative study of grassland ecosystem and pond ecosystem, it may be observed that

Options :

1. primary and secondary consumers are similar
2. the abiotic components are almost similar
3. the biotic components are almost similar
4. both biotic and abiotic components are different

Question Number : 2 Question Id : 7621611802 Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

An ecosystem which can be easily damaged but can recover after some time if damaging effect stops will be having

Options :

1. High stability and high resilience
2. Low stability and low resilience
3. High stability and low resilience
4. Low stability and high resilience

Question Number : 3 Question Id : 7621611803 Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

The gradual physiological adjustment to slowly changing new environmental conditions is known as...

Options :

1. Selection
2. Introduction

3. Acclimatization

4. Quarantine

Question Number : 4 Question Id : 7621611804 Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Succession initiated on large sand deposits or deserts is called..

Options :

1. xerosere

2. oxylosere

3. hydrosere

4. psammosare

Question Number : 5 Question Id : 7621611805 Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

An association between two individuals or populations where both are benefitted and where neither can survive without the other is...

Options :

1. Mutualism

2. Protocoperation

3. Competition

4. Commensalism

Question Number : 6 Question Id : 7621611806 Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

In an ecotone, the species which become abundant are called....

Options :

1. Foster species

2. Endemic species

3. Keystone species

4. Edge species

Question Number : 7 Question Id : 7621611807 Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

In Nitrogen Cycle, soil nitrates are transformed into free nitrogen by:

Options :

1. Nitrifying bacteria

2. Denitrifying bacteria

3. Ammonifying bacteria

4. Both Ammonifying bacteria and Nitrifying bacteria

Question Number : 8 Question Id : 7621611808 Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Which of the following is associated with multiple reproductive episodes during a species' lifetime?

Options :

1. semiparity
2. iteroparity
3. semelparity
4. fecundity

Question Number : 9 Question Id : 7621611809 Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

The cycle of atoms between living and non-living things is known as?

Options :

1. the carbon cycle
2. the nitrogen cycle
3. the oxygen cycle
4. biogeochemical cycles

Question Number : 10 Question Id : 7621611810 Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Mycorrhiza represents

Options :

1. parasitic association between a fungus and an alga
2. symbiotic association between a fungus and liverworts
3. parasitic association between a fungus and roots of plants
4. symbiotic association between a fungus and roots of higher plants

Question Number : 11 Question Id : 7621611811 Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Which one of the following is not used for *ex situ* plant conservation?

Options :

1. seed banks
2. shifting cultivation
3. field gene banks
4. biotic gardens

Question Number : 12 Question Id : 7621611812 Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

The Gram stain and acid-fast stain are based on chemical properties of the

Options :

1. plasma membrane
2. outer membrane
3. cell walls
4. periplasmic space

Question Number : 13 Question Id : 7621611813 Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Which of the following represent maximum number of species among global biodiversity

Options :

1. Mosses and ferns
2. lichens
3. algae
4. fungi

Question Number : 14 Question Id : 7621611814 Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Heterokaryosis (presence of many genetically different nuclei in an individual) is a character noticed in.

Options :

1. plant roots
2. herbaceous plant roots
3. ectomycorrhizal fungi
4. endomycorrhizal fungi

Question Number : 15 Question Id : 7621611815 Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

The competitive exclusion principle was first described by Gause, for species of

Options :

1. protozoa
2. grass
3. mice
4. birds

Question Number : 16 Question Id : 7621611816 Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

The green Algae swims in water with the help of hair like projections called..

Options :

1. diatoms
2. fronds
3. flagella
4. corolla

Question Number : 17 Question Id : 7621611817 Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

What organisms are the most susceptible to sonication?

Options :

1. Gram negative rods
2. Gram positive cocci
3. fungal spores
4. viruses

Question Number : 18 Question Id : 7621611818 Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

An example of nitrogen fixing bacteria in the soil?

Options :

1. Rhizobium
2. Azotobacter
3. Nostoc
4. Nitrobacter

Question Number : 19 Question Id : 7621611819 Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Generation time of Escherichia coli is

Options :

1. 20 seconds
2. 20 minutes
3. 20 hours
4. 20 weeks

Question Number : 20 Question Id : 7621611820 Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

The total biomass of an organism will be determined by the nutrient present in the lowest concentration relative to the organism's requirements is a statement of

Options :

1. Quorum sensing
2. Shelford's law of tolerance
3. Liebig's law of the minimum
4. Heisenberg's principle of uncertainty

Question Number : 21 Question Id : 7621611821 Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Which of the following procedures uses a photocell to measure absorbance of a culture to regulate the flow of culture media?

Options :

1. Coulter Counter
2. Hemostat
3. Petroff-Hausser chamber
4. Turbidostat

Question Number : 22 Question Id : 7621611822 Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Which among the following is called as filamentous bacteria ?

Options :

1. Vibrios
2. Mycoplasmas
3. Actinomycetes
4. Spirochetes

Question Number : 23 Question Id : 7621611823 Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

The addition of known active microbes to soil or water with the purpose of accelerating microbial processes is called.

Options :

1. biodegradation
2. bioremediation
3. bioaccentuation
4. bioaugmentation

Question Number : 24 Question Id : 7621611824 Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Identify the term that describes a disinfectant that can kill bacteria.

Options :

1. bacteriosis
2. bactericidal
3. bacteriostatic
4. pathogenic

Question Number : 25 Question Id : 7621611825 Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

A _____ classification system arranges organisms into groups whose members share many characteristics and reflects as much as possible the biological nature of organisms.

Options :

1. natural
2. phylogenetic
3. phrenetic
4. molecular

Question Number : 26 Question Id : 7621611826 Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Starvation proteins are produced by a culture during _____ of the growth curve.

Options :

1. Death phase
2. Stationary phase
3. Exponential phase
4. Lag phase

Question Number : 27 Question Id : 7621611827 Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Bacteria in which the flagella are distributed as tufts at one end of the cell are described as

Options :

1. amphitrichously flagellated
2. lophotrichously flagellated
3. peritrichously flagellated
4. polarly flagellated

Question Number : 28 Question Id : 7621611828 Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Chloroform is carcinogenic

Options :

1. skin
2. heart
3. liver
4. lungs

Question Number : 29 Question Id : 7621611829 Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Which of the following is not a secondary pollutant ?

Options :

1. ozone
2. carbonic acid
3. carbon dioxide
4. sulphuric acid

Question Number : 30 Question Id : 7621611830 Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

The endosymbiotic theory explains

Options :

1. the origin of all organelles in eukaryotic cells
2. how mitochondria and chloroplasts originated from free living cells
3. how bacteria cells can invade eukaryotic cells and cause disease
4. how eukaryotic cells consume food

Question Number : 31 Question Id : 7621611831 Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Which of the following statements is wrong?

Options :

1. CFCs play effective role in removing O_3 in the stratosphere
2. Ozone acts as filter for UV radiations
3. In the equatorial region it acts as pollutant
4. The amount of ozone layer is greater in the region close to the equator

Question Number : 32 Question Id : 7621611832 Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Acid rain is due to the increase in the concentration of which of the following in the atmosphere?

Options :

1. $O_3 + NO_2$
2. CO_2 and CO
3. CO and SO_3
4. NO_2 and SO_2

Question Number : 33 Question Id : 7621611833 Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Which of the following ion encourages for formation of algae in water?

Options :

1. SO_4^{2-}
2. PO_4^{3-}
3. ASO_4^{3-}
4. CO_3^{2-}

Question Number : 34 Question Id : 7621611834 Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Regular use of which of the following fertilizers increases the acidity of soil?

Options :

1. superphosphate of lime
2. potassium nitrate
3. urea
4. ammonium sulphate

Question Number : 35 Question Id : 7621611835 Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

According to Central Pollution Control Board, which particulate size in diameter (in micrometers) of the air pollutants is responsible for greatest harm to human health?

Options :

1. 5.2 – 2.5
2. 2.5 or less
3. 1.5 or less
4. 1.0 or less

Question Number : 36 Question Id : 7621611836 Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Sulfur dioxide contributes to all of the following problems except

Options :

1. loss of biodiversity in aquatic ecosystems
2. acid rain
3. damage to buildings
4. photochemical smog

Question Number : 37 Question Id : 7621611837 Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

What percentage of total world production of carbon dioxide do the developed countries contribute?

Options :

1. less than 10%
2. about 25%
3. about 50%
4. about 75%

Question Number : 38 Question Id : 7621611838 Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

What was the rank of India in Environment Performance Index amongst 178 countries participated during the year 2013

Options :

1. 95
2. 135
3. 155
4. 115

Question Number : 39 Question Id : 7621611839 Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Three way catalytic converter has the additional advantage of controlling the emission of

Options :

1. NO_x
2. CHC
3. SO_x
4. CO

Question Number : 40 Question Id : 7621611840 Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

The stage in which the biological processes is used to purify water in a wastewater treatment plants is called

Options :

1. secondary sewage treatment
2. primary sewage treatment
3. wastewater reduction
4. biochemical reduction

Question Number : 41 Question Id : 7621611841 Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Attack of asthma in certain persons may be due to

Options :

1. Exposure to cold temperature
2. Inhalation of some air borne pollen
3. Low concentration of CO₂ due to increased rate of photosynthesis
4. Eating of some seasonal vegetable

Question Number : 42 Question Id : 7621611842 Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Which of the following is not a primary contributor to the greenhouse effect?

Options :

1. Carbon dioxide
2. Chlorofluorocarbons
3. Nitrous oxide
4. Carbon monoxide

Question Number : 43 Question Id : 7621611843 Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

The best way to dispose plant waste is

Options :

1. Burning
2. Composition
3. Dumping under water
4. Incineration

Question Number : 44 Question Id : 7621611844 Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Temporary hardness to water is caused due to

Options :

1. Magnesium carbonate
2. Magnesium sulphate

3. Magnesium chloride
4. Calcium chloride

Question Number : 45 Question Id : 7621611845 Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

The membrane filtration level with the smallest pore size (0.0001 – 0.001 μm) is called..

Options :

1. microfiltration
2. reverse osmosis
3. nanofiltration
4. concentrate

Question Number : 46 Question Id : 7621611846 Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

High concentration of anaerobic bacteria (biologic water pollutants) are often caused by a decrease in the

Options :

1. temperature of ground water
2. growth of aerobic bacteria in the water
3. amount of organic wastes in the water
4. amount of oxygen dissolved in the water

Question Number : 47 Question Id : 7621611847 Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

The upwelling of magma in an active volcano has the greatest potential for producing a dangerous pyroclastic flow of the magma:

Options :

1. contains a high concentration of dissolved gasses and a high silica content
2. is basaltic and contains very little water vapour
3. contains low levels of volatile gases and erupts at a relatively high temperature
4. is andesitic and has a relatively low viscosity

Question Number : 48 Question Id : 7621611848 Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

An igneous intrusion that cuts across rock layers is called a

Options :

1. batholith
2. sill
3. dike
4. laccolith

Question Number : 49 Question Id : 7621611849 Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Deposits of bulldozed rocks and other material carried by a glacier and left behind when it melts are called

Options :

1. rock flour
2. ventifacts
3. moraines
4. loess

Question Number : 50 Question Id : 7621611850 Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Which out of the following is also known as the Great Ice Age?

Options :

1. Tertiary Era
2. Mesozoic Era
3. Quaternary Era
4. Paleozoic Era

Question Number : 51 Question Id : 7621611851 Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Exfoliation is common in

Options :

1. Mountains
2. Deserts
3. Coastal areas
4. Plain regions

Question Number : 52 Question Id : 7621611852 Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

How many for each degree of longitude does the local time of any place vary from the Greenwich Time?

Options :

1. four minutes
2. six minutes
3. eight minutes
4. ten minutes

Question Number : 53 Question Id : 7621611853 Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Largest earthen dam in India is

Options :

1. banasura
2. koyna
3. cheruthoni
4. bhavano sagar

Question Number : 54 Question Id : 7621611854 Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Which one of the following is not an endogenous geological aspects?

Options :

1. volcanoes
2. rivers
3. earthquakes
4. ground water

Question Number : 55 Question Id : 7621611855 Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Hydroxyl molecules are injected into the molecular structures of minerals thereby bringing about the decomposition of minerals is called as

Options :

1. hydration
2. leaching
3. oxidation
4. hydrolysis

Question Number : 56 Question Id : 7621611856 Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

The rock types exposed in and around the Nagarjun Sagar dam site are:

Options :

1. Granites only
2. Granite gneisses
3. Sandstones
4. Sandstones interbedded with clay beds.

Question Number : 57 Question Id : 7621611857 Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

In Palaeozoic Era some movements occurred. Find out the correct sequence.

Options :

1. Taconian, Armonican, Caledonian, Varicon

2. Armonican, Caledonian, Taconian, Varicon
3. Taconian, Caledonian, Armonican, Varicon
4. Armonican, Taconian, Caledonian, Varicon

Question Number : 58 Question Id : 7621611858 Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Residual hill in the desert region is known as:

Options :

1. Inlier
2. Inselberg
3. Playa
4. Pediment

Question Number : 59 Question Id : 7621611859 Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Which of the following minerals has a low solubility and therefore is least susceptible to chemical weathering at the Earth's surface?

Options :

1. Calcite
2. Plagioclase
3. Quartz
4. Olivine

Question Number : 60 Question Id : 7621611860 Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

A general term for the process whereby feldspar is weathered to clay is:

Options :

1. pedogenesis
2. metamorphosis
3. hydrolysis
4. mudification

Question Number : 61 Question Id : 7621611861 Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Which one of the following minerals does not contain silica tetrahedrons?

Options :

1. quartz
2. muscovite
3. halite

4. orthoclase

Question Number : 62 Question Id : 7621611862 Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

The contour interval on a topographic map is 50 m. There are 20 contour lines between your base camp and a mountain peak 1 km away. The slope of the mountain is about

Options :

1. 20 degrees
2. 32 degrees
3. 45 degrees
4. 54 degrees

Question Number : 63 Question Id : 7621611863 Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

The Mercator projection is actually which type of map projection?

Options :

1. conical
2. gnomonic
3. zenithal
4. cylindrical

Question Number : 64 Question Id : 7621611864 Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Which of the following is not one of the dominating interests in geography?

Options :

1. areal variation of physical and human phenomena on the surface of the earth and their interrelationships
2. the development of overlapping perceptual regions
3. regional analysis
4. spatial systems linking areas of physical phenomena and human activities together

Question Number : 65 Question Id : 7621611865 Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

If a map is called conformal, then it is correct for areas in terms of:

Options :

1. area
2. distance
3. shape
4. direction

Question Number : 66 Question Id : 7621611866 Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Color of infrared images that represent sandy areas, beaches and sand dunes is

Options :

1. red-magenta
2. white-cream
3. yellow
4. pink-red

Question Number : 67 Question Id : 7621611867 Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

What is meant by the term 'spatial filtering' in remote sensing?

Options :

1. Changing the position of pixels in an image because of inconsistencies in the relationship between sensor and surface during data collection
2. Making parts of the image at a different scale to another part of the image
3. Selectively preserving certain pixel frequencies in an image to enhance particular features or edges of objects
4. Separating a scene into separate constituent parts and focusing on a smaller section to increase the resolution

Question Number : 68 Question Id : 7621611868 Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

What is the number of photographs required to cover an area of 8.4 km x 8.4 km, if the overlap on either sides is 30% and the proposed aerial photographs size as 20cm x 20 cm having with scale 1:10000.

Options :

1. 2
2. 49
3. 601
4. 361201

Question Number : 69 Question Id : 7621611869 Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

What is the photo scale if the distance between two identifiable points on the photograph is 16 cm and on the map it is 4 cm, and the map scale is 1:30000?

Options :

1. 1:1000
2. 1:10000
3. 1:7500

4. 1:5000

Question Number : 70 Question Id : 7621611870 Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

What is the flying height above a fairly level ground, if a road section having 1 km scales 80 mm on a vertical photograph and the camera focal length as 152 mm

Options :

1. 1847 m
2. 1900 m
3. 2000 m
4. 1000 m

Question Number : 71 Question Id : 7621611871 Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

An image of the top of the hill is 100 mm from the principal point of the photograph. The elevation of the top of the hill is 500 m and the flying height is 4000m above the datum. The relief displacement will be.....mm

Options :

1. 800
2. 12.5
3. 8
4. 0.08

Question Number : 72 Question Id : 7621611872 Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

What is the first negative term, if 121, 117, 113, are in arithmetic progression?

Options :

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

Question Number : 73 Question Id : 7621611873 Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Find the determinant of the following matrix $A = \begin{bmatrix} 6 & -8 & 1 & 1 \\ 0 & 2 & 4 & 6 \\ 0 & 0 & 4 & 8 \\ 0 & 0 & 0 & -1 \end{bmatrix}$

Options :

1. 11
2. -48

3. 0
4. -24

Question Number : 74 Question Id : 7621611874 Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

What is the sum of $(-5) + (-8) + (-11) + \dots + (-230)$

Options :

1. -3030
2. -5530
3. -4530
4. -8930

Question Number : 75 Question Id : 7621611875 Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

How many three digit numbers which are divisible by seven?

Options :

1. 138
2. 128
3. 118
4. 108

Question Number : 76 Question Id : 7621611876 Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

A simple random sample of 100 observations was taken from a large population. The sample mean and standard deviation were determined to be 80 and 12 respectively. The standard error of mean is...

Options :

1. 1.2
2. 6.66
3. 8.33
4. 1.34

Question Number : 77 Question Id : 7621611877 Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

In case, coefficient of correlation is negative, the curve representing the relation will be

Options :

1. Vertical
2. Downward sloping
3. Upward sloping
4. Horizontal

Question Number : 78 Question Id : 7621611878 Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

As compared to geometrical increase method of forecasting population, arithmetical increase method gives

Options :

1. lesser value
2. higher value
3. same value
4. accurate value

Question Number : 79 Question Id : 7621611879 Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Chi square statistical technique is used to see

Options :

1. The difference between the means.
2. The difference between the variables.
3. The association between two variables
4. The correlation between two variables

Question Number : 80 Question Id : 7621611880 Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

F-test is used to find out

Options :

1. The difference between the means
2. The association between the means
3. The difference among the variables
4. The difference between median

Question Number : 81 Question Id : 7621611881 Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

What is the output of this C code?

```
int x = 5;
void main()
{
    int x = 3;
    printf("%d", x);
    {
        int x = 4;
    }
    printf("%d", x);
}
```

Options :

1. 3 3
2. 3 4
3. 3 5
4. 5 5

Question Number : 82 Question Id : 7621611882 Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

What is the default return type if it is not specified in function definition?

Options :

1. void
2. int
3. double
4. short int

Question Number : 83 Question Id : 7621611883 Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Which of the following correctly shows the hierarchy of arithmetic operation in C language?

Options :

1. / + * -
2. * - / +
3. + - / *
4. / * + -

Question Number : 84 Question Id : 7621611884 Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

An aquifer, which is underlying by impermeable layer at the bottom and not confined at the top is known as

Options :

1. Confined aquifer
2. Un confined aquifer
3. Semi confined aquifer
4. Perched aquifer

Question Number : 85 Question Id : 7621611885 Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Which one of the following is the spherical shaped bacteria?

Options :

1. Bacilla
2. Cocus
3. Vibrios
4. Spirilla

Question Number : 86 Question Id : 7621611886 Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Higher quantities of copper, more than 2.5 mg/l or so may cause diseases pertaining to

Options :

1. Kidney
2. Lungs
3. Liver
4. Teeth

Question Number : 87 Question Id : 7621611887 Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

The colour of water can be detected by

Options :

1. Nessler tubes
2. Naked eye
3. Tinometer
4. Nephelometers

Question Number : 88 Question Id : 7621611888 Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

What is the chemical name for aqua fortis?

Options :

1. Sulphuric acid
2. Nitric acid

3. Hydrochloric acid
4. Benzoic acid

Question Number : 89 Question Id : 7621611889 Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Mangrove type of ecosystem is seen in southern part of India. Where is it?

Options :

1. Mudumalai
2. Sathyamangalam
3. Pichavaram
4. Muttukadu

Question Number : 90 Question Id : 7621611890 Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Water evaporates and forms parts of the atmosphere in the form of water vapour, this water vapor forms into clouds in atmosphere at a height of

Options :

1. 10 kM
2. 30 kM
3. 20 kM
4. 40 kM

Question Number : 91 Question Id : 7621611891 Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

A pathogenic organism of unicellular/protozoan group is

Options :

1. Escherichia coli
2. Salmonella typhi
3. Entamoeba histolytica
4. Prokaryotes

Question Number : 92 Question Id : 7621611892 Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

A radioactive gas that can sometimes be found in groundwater is

Options :

1. mercury
2. arsenic
3. radon
4. uranium

Question Number : 93 Question Id : 7621611893 Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

If a gauge is installed perpendicular to the slope, its measurement is reduced by multiplying

Options :

1. calibration coefficient of the gauge
2. tangent of the angle of inclination with vertical
3. sine of the angle of inclination with vertical
4. cosine of the angle of inclination with vertical

Question Number : 94 Question Id : 7621611894 Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

The surface Run-off is the quantity of water

Options :

1. that is collected in rain gauge
2. intercepted by buildings and vegetative cover
3. required to fill surface depressions
4. that reaches the stream channels

Question Number : 95 Question Id : 7621611895 Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

What is the difference between the saturated and unsaturated zones of groundwater?

Options :

1. The saturated zone has a higher porosity than the unsaturated zone.
2. The saturated zone has a lower porosity than the unsaturated zone.
3. The pore spaces in the saturated zone are not completely full of water; the pore spaces in the unsaturated zone are completely full of water
4. The pore spaces in the saturated zone are completely full of water; the pore spaces in the unsaturated zone are not completely full of water

Question Number : 96 Question Id : 7621611896 Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

The process in which ice turns into water vapor and cools the environment is called.

Options :

1. freezing
2. condensation
3. evaporation
4. sublimation

Question Number : 97 Question Id : 7621611897 Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

In which type of rocks, the caves are generally form in?

Options :

1. Basalt
2. Lime stone
3. Sand stone
4. Shale

Question Number : 98 Question Id : 7621611898 Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Which of the following rock is having greatest hydraulic conductivity?

Options :

1. Shale unfractured
2. Clay
3. Sand
4. Glacial till

Question Number : 99 Question Id : 7621611899 Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Darcy's law states that

Options :

1. The discharge is inversely proportional to head loss.
The discharge is inversely proportional to head loss and directly proportional to the length.
2. length.
3. The discharge is directly proportional to head loss and inversely proportional to area of flow and to the length of the path.
4. The discharge is directly proportional to head loss and area of flow and inversely proportional to the length of the path.

Question Number : 100 Question Id : 7621611900 Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Groundwater boundary exists where:

Options :

1. There is a flow across a water table.
2. The inflow and outflow are equal.
3. There is no flow crosses a water table.
4. All the three options are correct.

Question Number : 101 Question Id : 7621611901 Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

The change in the head per unit distance is:

Options :

1. The hydraulic gradient.
2. The equipotential gradient.
3. The flow gradient.
4. The Hydraulic head.

Question Number : 102 Question Id : 7621611902 Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

In electrical resistivity method, used for groundwater investigation, a current is generated in the field of frequency is

Options :

1. Less than 1 cycle per second.
2. Less than 2 cycles per second.
3. More than 5 cycles per second.
4. More than 10 cycles per second

Question Number : 103 Question Id : 7621611903 Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

In gamma ray log method the gamma radiations in general increases with:

Options :

1. Increasing quartz contents.
2. Decreasing clay contents.
3. Increasing clay contents.
4. Increasing calcareous content

Question Number : 104 Question Id : 7621611904 Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

When salinity changes occur in a vertical profile:

Options :

1. The lower portion of the aquifer should be tapped.
2. The upper portion of the aquifer should be tapped.
3. The middle portion of the aquifer should be tapped.
4. The whole aquifer should be tapped

Question Number : 105 Question Id : 7621611905 Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

In India, as per Indian standards, water consumption per capita per day for domestic purpose is.....liters

Options :

1. 320
2. 220
3. 185
4. 135

Question Number : 106 Question Id : 7621611906 Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Colloidal impurities if associated with organic matter having bacteria becomes the chief source of

Options :

1. Hardness
2. Epidemic
3. alkalinity
4. salinity

Question Number : 107 Question Id : 7621611907 Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Which of the following substance is found in the runoff of chemically fertilized lawns and is most likely to cause eutrophication in streams and lakes?

Options :

1. Sodium
2. Carbonation
3. Phosphate
4. Sulfate

Question Number : 108 Question Id : 7621611908 Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

A lichen is best characterized as a symbiosis between

Options :

1. A liverwort and a fungus
2. A moss and a liverwort
3. An alga and a moss
4. An alga and a fungus

Question Number : 109 Question Id : 7621611909 Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Weather events characterized by heavy rain, thunderstorms and a sharp temperature drop followed by clearing are most likely related to

Options :

1. The passage of a cold front
2. The passage of a warm front
3. The action of a stationary front
4. The heat island effect

Question Number : 110 Question Id : 7621611910 Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Sliding failure occurs in a solid gravity dam when

Options :

1. Resultant of all forces cuts the base of the dam outside
2. Resultant of all force cuts the base of the inner middle third point
3. Ratio of overturning moments exceeds one
4. Shear friction factor is less than 1.5

Question Number : 111 Question Id : 7621611911 Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

The meander pattern of a river is developed by

Options :

1. Average discharge
2. Dominant discharge
3. Maximum discharge
4. Critical discharge

Question Number : 112 Question Id : 7621611912 Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

The most suitable chemical which can be applied to the water surface for reducing evaporation is

Options :

1. Methyl alcohol
2. Ethyl alcohol
3. Cetyl alcohol
4. Butyl alcohol

Question Number : 113 Question Id : 7621611913 Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Which of the following type of rain gauge is used for measuring rain in remote hilly inaccessible areas?

Options :

1. Tipping bucket type
2. Acoustic rain gauge type
3. Jardi's pluviometer
4. Simon's rain gauge

Question Number : 114 Question Id : 7621611914 Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

The area between the isohyets 40 cm and 50 cm is 100 sq. km and between 50 cm and 60 cm is 150 sq. km. The average depth of annual precipitation by considering these two areas will be

Options :

1. 50 cm
2. 51 cm
3. 51.25 cm
4. 49 cm

Question Number : 115 Question Id : 7621611915 Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

The major resisting force(s) in a gravity dam is

Options :

1. water pressure
2. wind and wave pressure
3. self weight of the dam
4. uplift pressure of the dam

Question Number : 116 Question Id : 7621611916 Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

The most suitable material for the central impervious core of a zoned embankment type dam is

Options :

1. Clay
2. Clay mixed with fine sand
3. Silty clay
4. Coarse sand

Question Number : 117 Question Id : 7621611917 Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Which of the following statements is *not* correct with respect to river flow in dryland environments?

Options :

1. Coarse and sandy soil often results in high infiltration capacities
2. The intense nature of rainfall events causes rapid runoff and high flood peaks
3. Drylands are characterised by rare but intense rainfall events
4. Most of the water is stored above ground to maintain base-flow until the next flood event

Question Number : 118 Question Id : 7621611918 Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Fine parallel lines, or striations, are most likely to be seen on a cleavage surface of

Options :

1. Quartz
2. Orthoclase
3. Plagioclase
4. Hornblende

Question Number : 119 Question Id : 7621611919 Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Which of the following materials is the hardest?

Options :

1. calcite
2. silicon carbide
3. topaz
4. quartz

Question Number : 120 Question Id : 7621611920 Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

During which of the following operating conditions of an automobile, carbon monoxide content in the exhaust gas is maximum ?

Options :

1. Deceleration
2. Cruising
3. Idle running
4. Acceleration