FINAL EXAM_SEG_5-6

* Required

Email address *

Your email



This is a required question

Name

Your answer

- Of the following, the one that is not a manifestation of desertification is *
- Declining groundwater tables
- salinization of topsoil and water
- production of deposits of MnO2 and Fe2O3•H2O from anoxic processes,
- reduction of surface waters,

Deposits of iron minerals are often found where groundwater flows to the surface. Use a chemical reaction to explain this observation. *

4Fe2+(aq) + O2(aq) + 10H2O = 4Fe(OH)3(s) +

The ring size and number of linked tetrahedral present in the [Si6O18]12- are * *
O 6 and 12
6 and 6
12 and 6
O 12 and 12
An example of sedimentary rocks is *
limestone
basanite
o carbanite
granite
What is the upper surface of the zone saturation called *
Aquifier
Aquiclude
Water Table
Aquifuge

The intrusive rock is also known as *
sediments
plutonic rocks
ovolcanic rocks
O molasse
Find out the correct statements about their toxicity?a) Methanol, b) Parathion, c) Phthalate esters, d) Dimethylnitrosamine *
a) Inhibits acetylcholinesterase b) Carcinogen; c)Affects optic nerve leading to blindness; d) Very widespread
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Find out correct phenomena associated with the following toxic pollutants; a) Carbon monoxide; b)Toluene; c) Aniline; d) Nerve gas *
a) Methemoglobin; b) Acetylcholinesterase activity; c)Hemoglobin adduct; d) Hippuric acid
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A sample of a colored analyte at a concentration of 3.60 x10-3 mol/L shows 34.2 percent transmittance in a 2.00 cm cell. What is the value of "a" in the Beer's law equation for this substance at the wavelength measured? \star

- 64.6 L mol-1cm-1
- 32.8 L mol-1cm-1
- 6.46 L mol-1cm-1
- 12.2 L mol-1cm-1

Conservative Margins are known as *

- Transformation Faults
- O Destructive Plate Boundary
- Ocean Floor
- John Tuzo Wilson

In normal silicates, each Si atom is surrounded by *

- five oxygens atoms in trigonal bipyramidal geometry
- of four oxygen atoms in square planar geometry
- six oxygen atoms in octahderal geometry
- four oxygen atoms in tetrahedral geometry

For each mineral provide the correct arrangements. a) Talc; b) Chrysotile; c) Tremolite; d) Quartz *
a) Sheet; b) Double chain; c) Chain; d) Three-dimensional array
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a) Chain; b) Sheet; c) Double Chain; d) Three-dimesional array
a) Chain; b) Double Chain; c) Three-dimensional array; d) Sheet
Biomass is a very heterogeneous and chemically complex renewable resource, with a range of chemical compositions as shown below * Carbohydrates Secondary metabolites
Lignocellulosic fibers
All the above
Only 1 and 3
The major product of Hemicellulose is *
Phenols
Glucose
Mannose
Xylose

The process in which the cellulose produces its glucose monomers is known as *
hydrolysis
saccharification
pyrolysis
Torrefaction
The following thermochemical platform of biomass produces the liquid, solid, and gaseous fuels *
Pyrolysis
Gasification
Hydrolysis
Options 2 and 3
Vegetable oils belong to the following generation of the feedstock *
First generation
Second generation
Third generation
Fourth generation

Cellulose usually exists as long thread-like fibers called microfibrils with the monomeric units of anhydro-d-glucose units with *
Beta- glycosidic linkage
Alpha- glycosidic linkage
Both
The cross linking glucans are present in *
Cellulose
Lignins
Hemicellulose
Secondary metabolites
The phenylpropaniod subunit is present in *
Cellulose
O Hemicellulose
Vegetable oils
Lignin

Torrefaction is a process where following occur *
decomposition of hemicellulose coupled with depolymerization of cellulose
thermal softening of lignin
the orientation of microfibrils is displaced
all the above
options 2 and 3
The following type of linkages are common in the Lignin *
β-O-4
· α-O-4
Ο • β-β
Ο • α-α
HMF and levulinic acid are obtained from the following *
O Hemicellulose
Lignins
Cellulose
Natural products

Depolymerization of lignin provides *
Biogas
Biooils
Phenols
Xylose
Which of the following biomass is hydrophobic in nature *
Lignins
Cellulose
Secondary metabolites
All the above
Guaiacyl units of the Lignins are present *
In both soft and hard woods
Only the hard wood
Only the soft wood

Which of the following biomass provides C1 to C6 platform chemicals *
Lignins
O Hemicellulose
Cellulose
Vegetable oils

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