The main factor which keeps the stability of the ecosystem is .......

- diversity of living organisms.
- simplicity of ecosystem.



Each of the following change the shape of earth surface except ......

• rotation of the outer core around the inner core





Combination of calcium and carbonate by effect of groundwater form .....

• stalactite and stalagmite

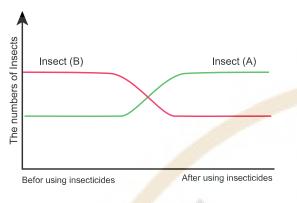




Which of the following sea floors are more exposed to earthquakes formed by destructive movements of tectonic plates ?

• Mediterranean Sea. • Aqaba gulf. • Red Sea • Atlantic ocoen.

### Study the following graph and then answer



The insects A and B, respectively, are.....

• A harmful, B useful

• A useful, B harmful

• A , B useful insects

A, B harmful insects

### Plankton in marine food chain repsent .....

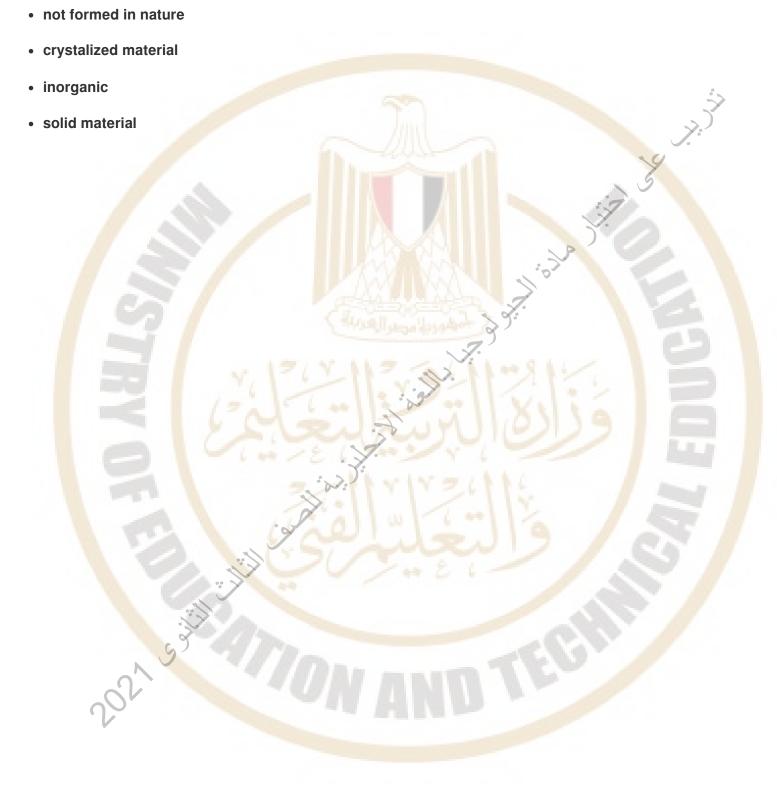
• 1.st and 2.nd trophic level.

• 1.st trophic. level.



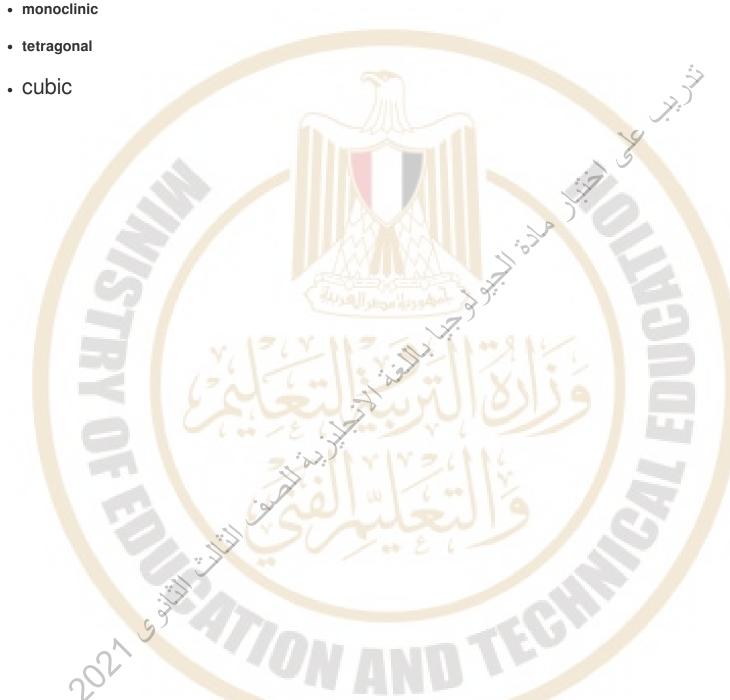
An inorganic solid material formed during preparing in laboratory, this material <u>is not</u> mineral because it is .......

is indicital is not inincial because it is ......



When the angles of orthorhombic crystal become different, the crystal system becomes .......

• triclinic



Which of the following components <u>Do not</u> belong to natural environment?

- textile factories.
- man who mange factories.





What is the origin of sharp edges clastics which form breccias rocks?

• Gravels.

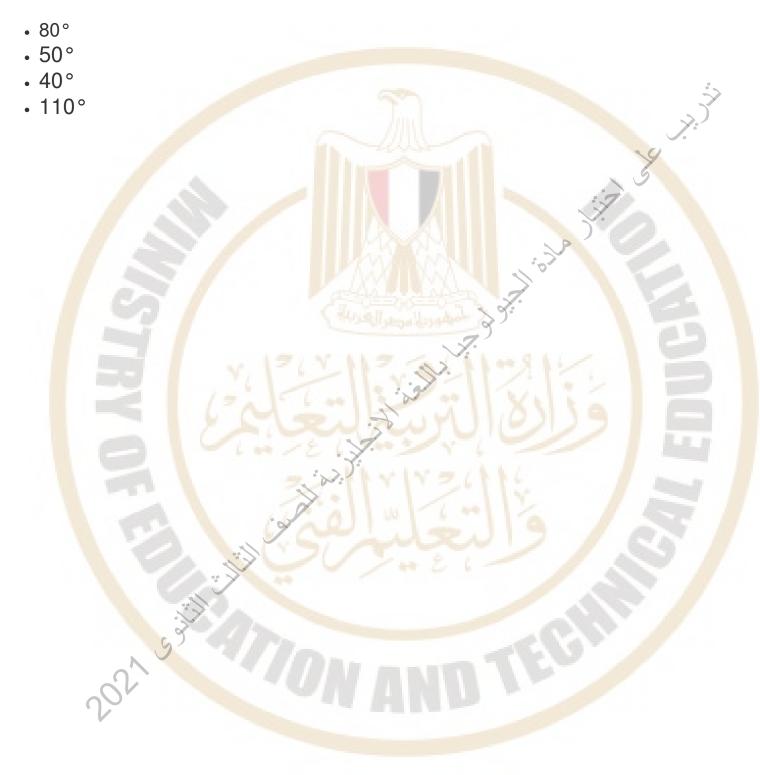
• Sands.



### 11

The hydrocarbon compounds matured under earth's surface will be converted

into liquid or gaseous state at temperature of.....



From the minerals which are used in building materials industries is ......

• calcite.





What is the type of fault in which the hanging wall moves in the direction of the gravity?

- graben.
- thrust fault.

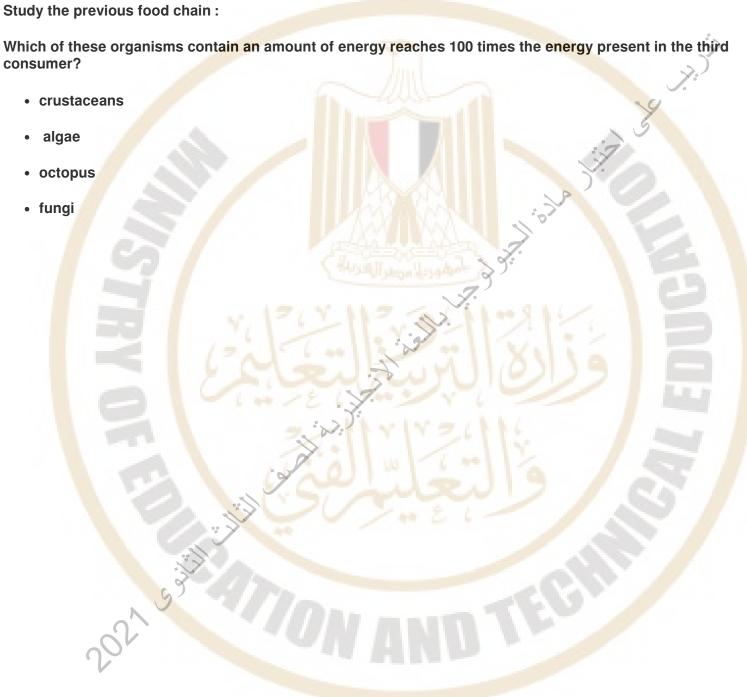


The time relationship of rocks can be determined by ......

- folds

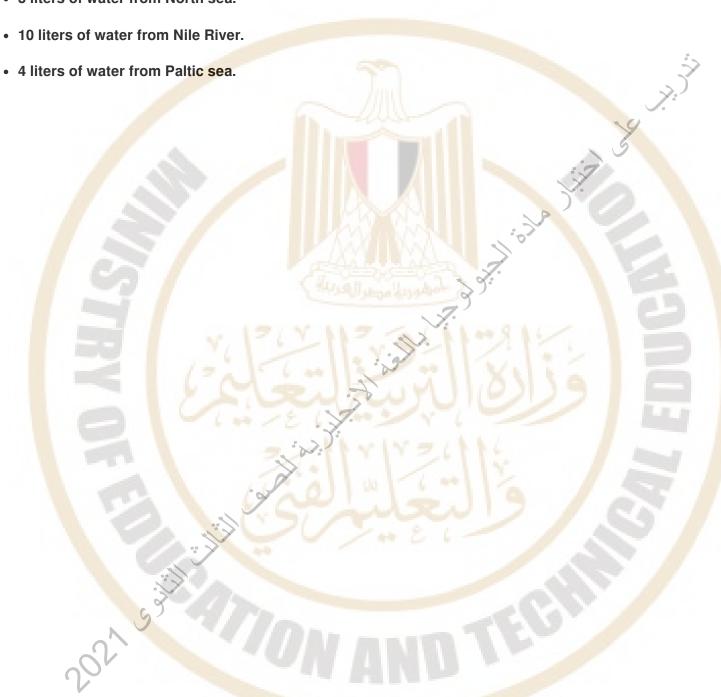




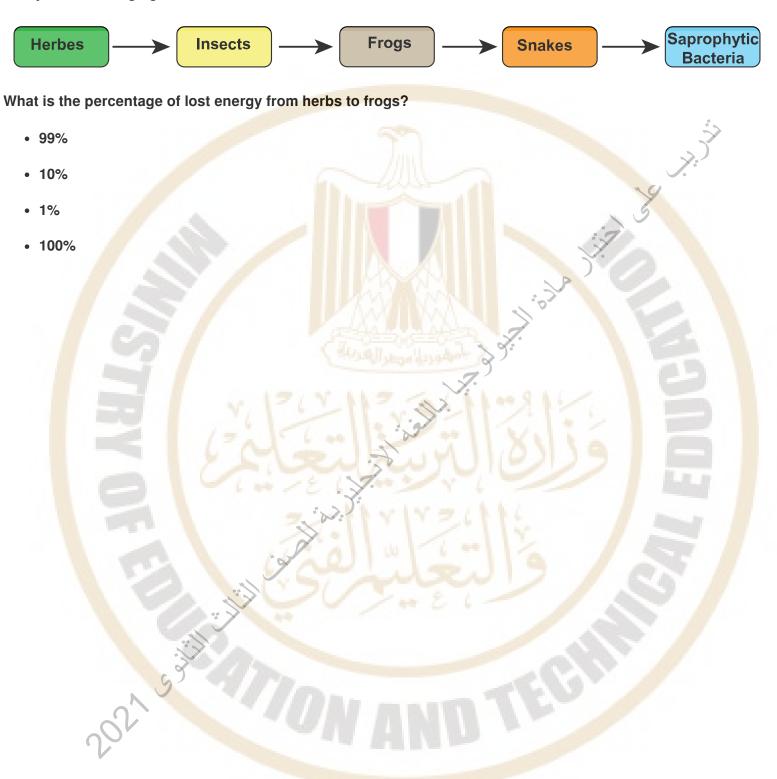


The largest amount of salt is produced from evaperotion of .......

- 2.5 liters of water from Arabian gulf.
- 3 liters of water from North sea.



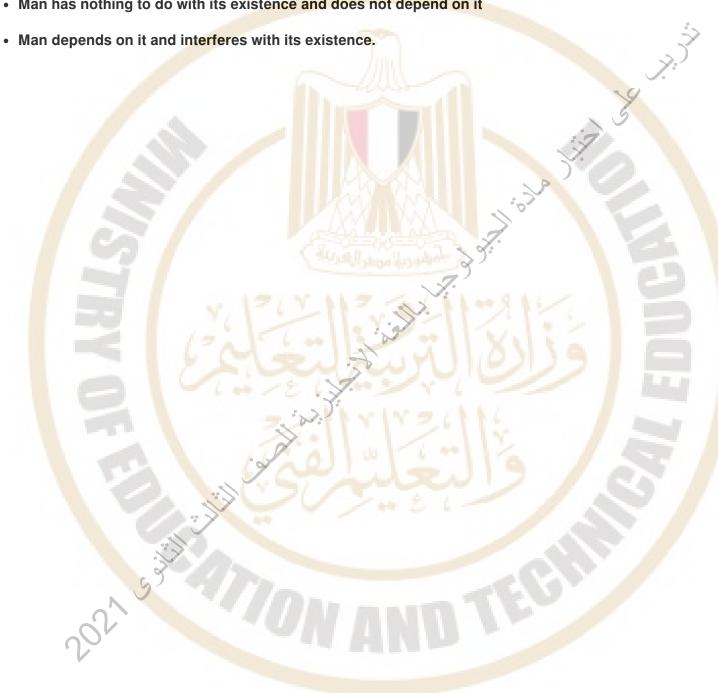
Study the following figure then deduce.

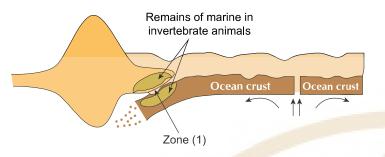


# Food chain (A) contains: algae → larvae → small fish → fungi. Food chain (B) contains: aloe → jerboa → snakes → Bacteria Which organisms in both chain (A), (B) differ in the source of energy from other organisms? • Algae, Aloe • Larvae, Jerboa • small fish, snakes • Fungi , Bacteria

### **Environmental resources are .......**

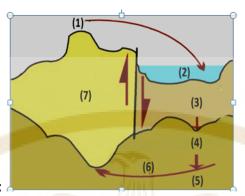
- Man depends on it but has nothing to do with its existence.
- Man made it and depends on it
- Man has nothing to do with its existence and does not depend on it





Rocks That Contain skeletons of marine animals were formed from calcium compounds deposited from sea water in zone (1) will be.....

- affected by heat and have attractive colours.
- affected by heat and foliated.
- affected by heat and pressure forming quartzite.
- affected by pressure and have no attractive colours.



Study the opposite figure then answer:

Magma in area (5) rich in .....

- Calcium Iron
- Sodium Magnesium
- Sodium Calcium
- Iron Potassium

presence of quartz crystals beside a large mass of granite, indicate all the following except....

- Chemical weathering by oxidation
- Chemical weathering by carbonation



Which of the following geological regions can be more exposed to presence of earthquakes centers?

• convergence of plates forming Andes mountain.





What is the geological structure in which younger layer is surrounded by older layers?

• graben

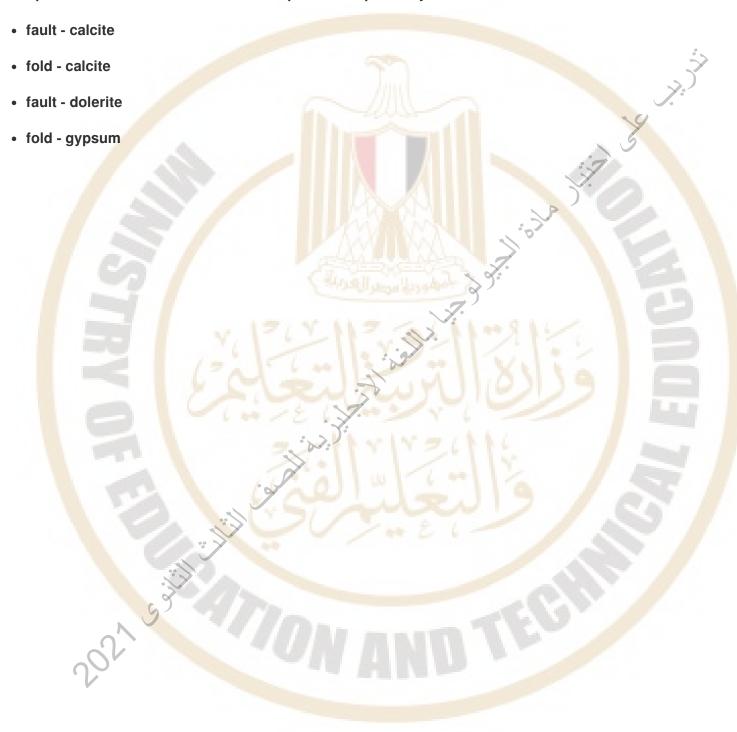




## **25**

Some mineral deposites of one of the calcium salts were found on a polished rock and has lines parallel to the rocks movement.

it is expected that the structure and the deposites respectively are ......



If a mafic plutonic rock exposed to mechanical weathering and broken into minerals the formed soil contain.....

- Coarse grains of amphibole, calcium-rich plagioclase and pyroxene
- Fine grains of olivine, pyroxene and plagioclase
- Coarse grains of olivine, pyroxene and sodium-rich plagioclase



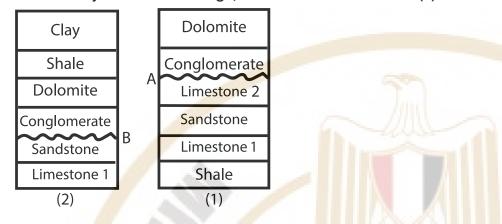
When waves collide with calcereos rock alternate with muddy roks beside it form .......

- coastal endings and meanders
- coastal spits.



### In the following figure

(A) and (B) are two unconformity surfaces in two adjacent regions, the similar rocks which are above the surface of unconformity have the same age, and the rate of erosion in (2) is more than that in (1)

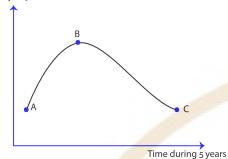


It is expected to find the time relation between the surfaces of nonconformity (A), (B) is ..........

- Have the same age and uplifting movements occurred in section (1)
- A is older than B
- B is older than A
- Have the same age and uplifting movement in section (2)

### Study the opposite graph then deduce.

Quantity of potato in the same area



What is the reason of decreasing the amount of the crop of potato from (B) to (C)?

- planting potato for many sequence years.
- increasing the usage of organic fertilizers.
- the diversity of planting beans and potatoes.
- transforming houses garbage into fertilizers.

Which of the following compound mineral reflect light at high degree?

• pyrite.

• calcite.



There is a hand specimen for cemented grains in front of you:



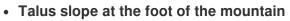
Which of the following shapes can obsidian rock exists?

- Pillows.
- Dykes.



The repeated changes in temperature opposing with the formation of ........

• Kaolinite form granite.





What's the name of the mountains produced from the collision between the indian plate with the urasian plate?

- Himalaya
- Andes



The rocks which are formed in tropical region and exist nowadays near North Pole has magnetic deflection angle about......

• 30°



Economic minerals that are deposited when the speed of river decreases are called .....

- Black sand
- Flood plane



When we drill a well in Delta region , there was a succession of layers , a fragmented muddy layer was found above a sandy layer which above a limestone layer

The soil in this region will be .......



The amount of energy reaches to marine birds from zooplanktons is .....

• 0.1 %

• 1%



Temperary vegetation in the desert is characterized by all of the following except.....

- Leave its seeds in soil in winter.
- Leave its seeds in soil in Summer.



Which of the following is a native mineral with weak chemicl bonds and cleavage in one direction?

- Graphite.
- Biotite.



Seas in region of Abo Tarur in New Vally 90 million years ago charactarized by ......

shallow and normal salinity





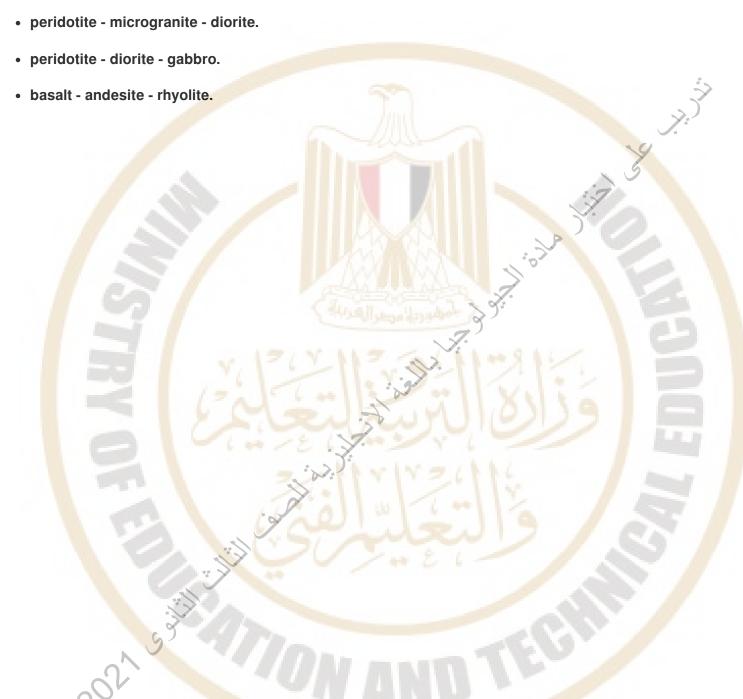
Calcareous horizontal rocks found in low level area at depth of 133m lower than the sea level

This refers to the occurance of ......



What is the correct ascending order of subsurface igneous rocks in term of the percentage of silica?

dolerite - diorite - microgranite.



If rhyolite is subjected to factors of the two types of weathering then its components exposed to compressing and intense pressure and low temperature

What is the type of formed rock?



There presence of coral reefs in Red Sea exposed at pressure about 7 atm- it may be accompanied with .....

- fixed algae
- brown algae



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Which of the following phenomena formed as a result of passing water of river between rocks of different hardness on both sides ?

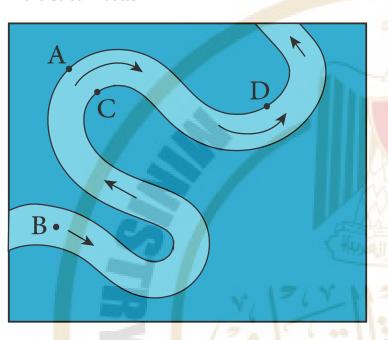


The Opposite figure

illustrates meanders of

river A, B, C, D points

in the stream bottom.



Which location has the Lowest speed?

- C and D
- A and B
- B and D
- D and A

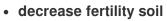
The increase of population and industrial progress leads to depletion of all the following except .........

- Solar and wind energy
- Petroleum oil and solar energy



The use of calcium nitrate as chemical fertilizer leads to.....

erosion of soil





Which of the following resources need millions of years to be formed again?

- hydrocarbon substance.
- rives water.

