



# Geology

## Third Sec.

Final Revision 2022



# Final Revision



- ١ – A rock consists of many minerals in the Western Desert, fragmented with time keeping its original minerals as a result of .....
- a– release of pressure
  - b– thermal expansion
  - c– oxidation
  - d– carbonization

**b– thermal expansion**



# Final Revision



٢– By the help of studying the geological time scale, we can observe the period of time occupied by both Cambrian, Ordovician, Silurian and Devonian periods were about ..... years

a– 300 millions

b– 542 millions

c– 242 millions

d– 500 millions

**c– 242 millions**



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3- The science shared to know the climatic changes along the geological times is .....

a- physical geology

b- geophysics

c- paleontology

d- engineering geology

**c- paleontology**



# Final Revision



ξ – The first appearance of organisms producing oxygen was in which era ?

a– Archean

b– Proterozoic

c– Paleozoic

d– Mesozoic

**b– Proterozoic**



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5- Which of the following faults can the similar layers appear in the same level ?

a- normal fault

b- strike slip fault

c- reverse faults

d- horsts

**b- strike slip fault**





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6- Which of the geological actions can act in the opposite figure ?

a- climatic and environmental conditions

b- secondary factors

c- mud cracks

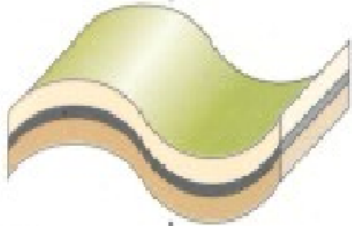
d – tectonic structures



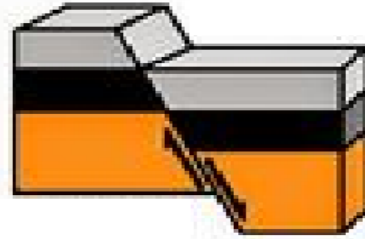
**a- climatic and environmental conditions**



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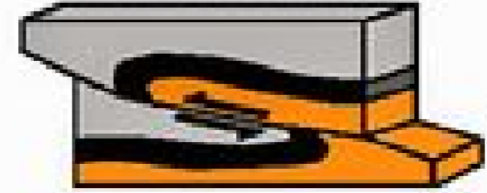
(4)



(3)



(2)



(1)

7 - Which of the following structures caused by tectonic structures different from other structures ?

structures 3



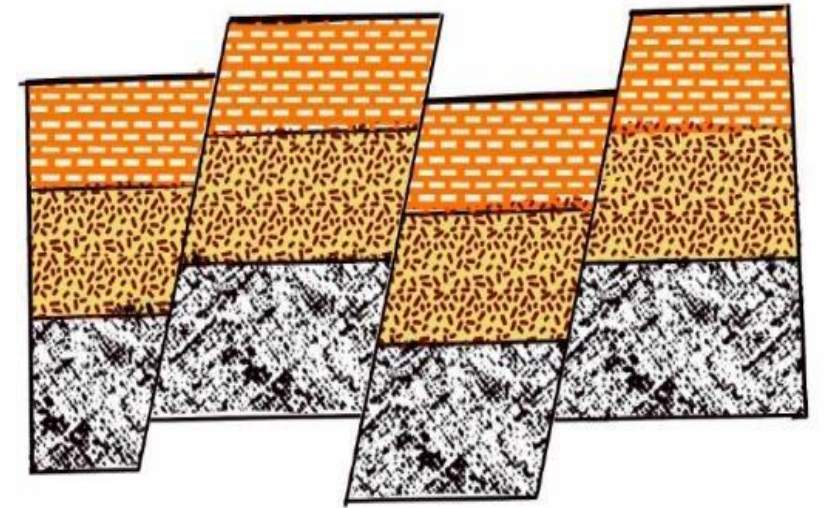


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8– What are the shown geological structure from right to left ?

- a– normal fault – reverse fault – reverse fault
- b– normal fault – reverse fault – normal fault
- c– reverse fault – normal fault – normal fault
- d– reverse fault – reverse fault – normal fault



**b– normal fault – reverse fault – normal fault**

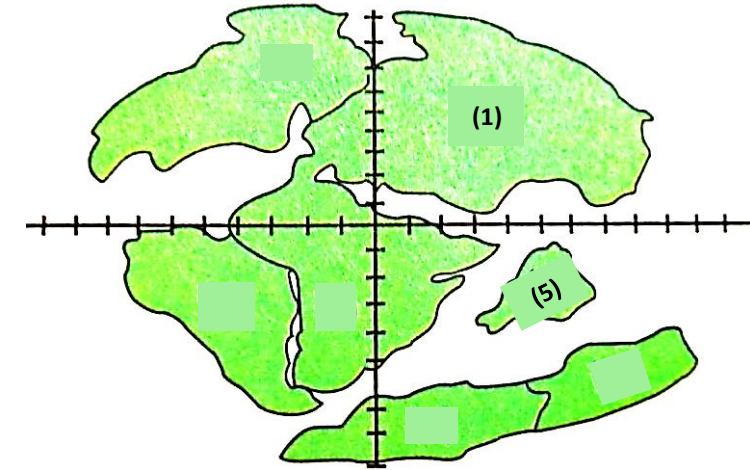


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٩ – From the figure : what's the type of tectonic plates motion between the plates ( 5 ) , ( ١ ) ?

- a– diverging forming Red Sea
- b– diverging forming Atlantic and Indian ocean
- c– converging forming Andes mountains
- d– converging forming Himalaya mountains**



**d– converging forming Himalaya mountains**



# Final Revision



10– What's the reason of disappearance of five branches of the seven branches of the Nile River ?

- a– increasing erosion
- b– increasing deposition
- c– increasing slope
- d– decreasing deposition

**b– increasing deposition**



# Final Revision



- ١١ – We can predict the occurrence of earthquakes in all the places of each of the following except .....
- a– sliding boundary of tectonic plates
  - b– diverging boundary of tectonic plates
  - c– epeirogenic movements
  - d– injection o oceanic plate below continental one

**c– epeirogenic movements**



# Final Revision



- 12– A rock consists of many minerals in the Western Desert, fragmented with time keeping its original minerals as a result of .....
- a– release of pressure
  - b– thermal expansion
  - c– oxidation
  - d– carbonization

**b– thermal expansion**



# Final Revision



13– A rock consists of many minerals in the Western Desert, fragmented with time keeping its original minerals as a result of .....

- a– release of pressure
- b– thermal expansion
- c– oxidation
- d– carbonization

**b– thermal expansion**





# Final Revision



- 14– What's the point of similarity between calcite and halite ?
- a– number of cleavage planes
  - b– degree of solubility in water
  - c– the atomic group
  - d– number of their chemical elements

**a– number of cleavage planes**



# Final Revision



15- What's the percentage of energy in the fourth trophic level in relation to the second one ?

- a- 0.1 %
- b- 1%
- c- 10%
- d- 100%

**b- 1%**



# Final Revision



16– A spare source of energy sources in waxy nature and not consumed now is .....

- a– coal
- b– Kerogyn
- c– natural gas
- d– oil

**b– Kerogyn**



# Final Revision



- 17– Which of these are not considered as renewable resources ?
- a– liquid hydrocarbons
  - b– fresh water
  - c– micro organisms
  - d– forests organisms

**a– liquid hydrocarbons**



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18– In the destructive motion between the sial plate and another basalt plate, the rock which is formed above the earth surface may be .....

- a– rhyolite
- b– andesite
- c– basalt
- d– obsidian

**b– andesite**



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19– The shape of earth surface is in continuous change and equilibrium as a result of .....

- a– the natural factors affecting the rocks of earth crust
- b– the high density of internal core rocks
- c– the physical state of the outer core layer
- d– the magnetic field of the earth

**a– the natural factors affecting the rocks of earth crust**





# Final Revision



- 20– What characterizes this tectonic structure ?
- a– the limbs become away from each other downward
  - b– the oldest layers are in the center
  - c– the number of layers equals the number of axes
  - d– the number of limbs equals the number of axes



**c– the number of layers equals the number of axes**



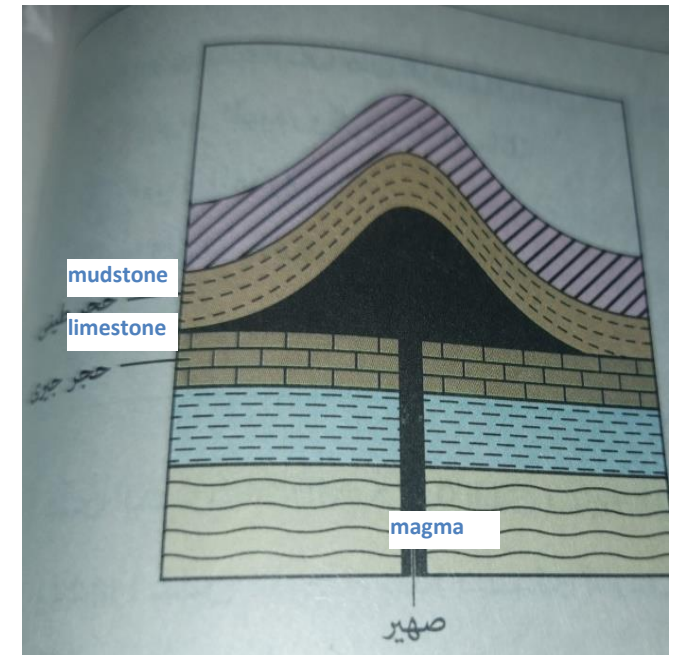
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21- From the opposite section, if the igneous intrusion contains silica about 60%. which of these rocks may be formed from magma ?

- a- quartzite – slate – diorite
- b- marble- slate – micro diorite
- c- marble – schist – micro diorite magma
- d- quartzite – schist – micro diorite

**c- marble – schist – micro diorite**



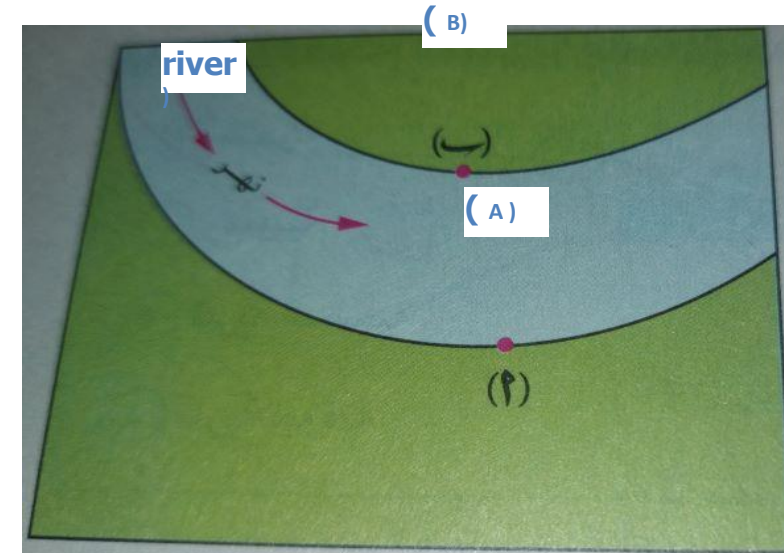


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22– The figure represents the river path, the arrow indicates the direction of the stream in the river, the letters ( A ) , ( B ) are on both sides of the river. The velocity at (B) will be .....

- a– fast causing erosion
- b– slow causing deposition
- c– slow causing erosion
- b– fast causing deposition



**b– slow causing deposition**



# Final Revision



23–Which of the following factors not affect the surface movement of sea water ?

- a– tides
- b– salt concentration
- c– wind direction
- d– wind intensity

**b– salt concentration**



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24– Which of the following is a compound mineral, reflect light with high degree ?

a- quartz

b- galena

c- gold

d- diamond

**b- galena**



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25– On a visit to the geological museum, you found a sample for a rock of light colour and clear crystals .Which of these minerals not expected to be present in this rock ?

- a– olivine, pyroxene
- b– quartz, amphibole
- c– quartz, muscovite
- d– orthoclase, biotite

**a– olivine, pyroxene**





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26- From the desert animals which depend on the blood of their preys and hibernate are .....

- a- locust
- b- snakes
- c- jerboa
- d- eagles

**b- snakes**



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27– The phyto planktons looks like the annual herbs in

.....

- a– disappear in summer because of dryness
- b– increase in winter due to rains
- c– act as the base of feeding in its ecosystem
- d– leaving its seeds in the soil

**c– act as the base of feeding in its ecosystem**



# Final Revision



28– The relation between the size of fragments and the depth of sea water is .....

- a– directly
- b– increasing then decreasing
- c– inversely
- d–decreasing then increasing

**c– inversely**

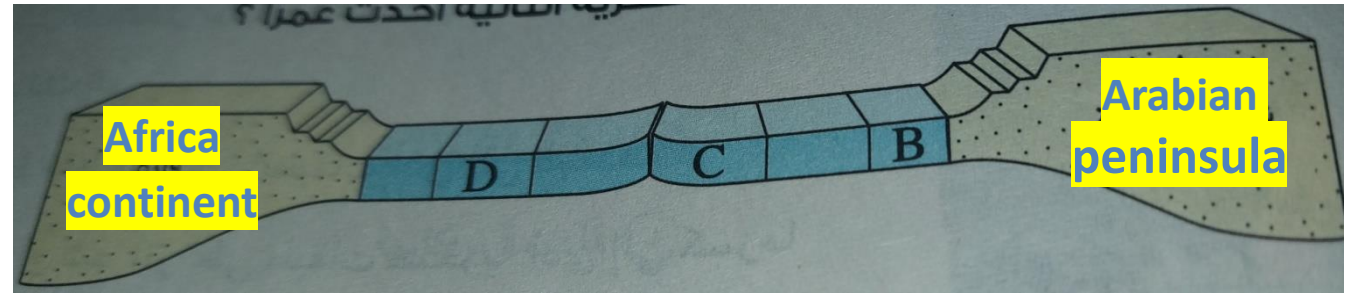


# Final Revision



29– From the figure, which of the following rocks regions are the recent ones ?

- a– ( A )
- b – ( B )
- c – ( C )
- d – ( D )



( C )



# Final Revision



30– Which of the following factors not play a role in determination of the shapes of the subsurface igneous domes ?

a– magma viscosity

b– mineral composition of magma

C– – speed of crystallization of magma

d– magma density

**C– – speed of crystallization of magma**



# Final Revision



31- The figure represents a water spring may be hot . That refers to .....

- a- pressure only affected layers caused its wrinkling
- b- pressure or tension affected the rocks layers caused its fracture and changing its level
- c- pressure only affected layers caused its fracture only
- d- earth movement caused rising of water above earth surface



**b- pressure or tension affected the rocks layers caused its fracture and changing its level**





# Final Revision



٣٢ – Iron is considered as one of the non renewable resources because it .....

- a– will disappear with the human using
- b– shares in many industries
- c– undergo in cycles
- d– formed in sedimentary rocks in nature

a– will disappear with the human using



# Final Revision



- 33- The unuse of the organic fertilizers in agriculture leads to .....
- a- increasing the activity of nodular bacteria
  - b- agricultural soil drift
  - c- increasing the activity of living organisms in the soil
  - d- the nodular bacteria are able to fix phosphorous

**b- agricultural soil drift**



# Final Revision



34–The injection of a plate of basic rocks below another one of acidic rocks will give a structure its rocks are from the type of ..... rocks

- a– intermediate volcanic
- b– intermediate plutonic
- c– plutonic acidic
- d– basic volcanic

**a– intermediate volcanic**



# Final Revision



- 35– What's the effect of burning of large areas of Australia forests ?
- a– the ecosystem will be affected, keeps its stability
  - b– the ecosystem will be affected, return back to its stability quickly
  - c– the diversity of the living organisms in forests increases
  - d– disequilibrium of the ecosystem then new rebalance again

d– disequilibrium of the ecosystem then new rebalance again



# Final Revision



36– What's the type of soil consists of rocks rich in quartz, and below it there're rocks rich in calcite ?

- a– residual
- b– transported
- c– of gradual texture
- d– of sharp edges gravel

**b– transported**



# Final Revision



37– Presence of mutual relations between the living and the non living factors in Siwa oasis can be expressed by .....

- a– ecosystem
- b– technological environment
- c– social environment
- d– ecology science

**a– ecosystem**



# Final Revision



38– Using poisonous chemical compounds to eliminate insects leads to .....

- a– decreasing harmful insects
- b– decreasing useful insects
- c– increasing soil fertility
- d– increasing the useful insects

**b– decreasing useful insects**





# Final Revision



39– What's the result of flowing of lava above the rectangular sand dunes ?

- a– not affected
- b– changes to quartzite
- c– changes to gneiss
- d– forming sandstone

**b– changes to quartzite**



# Final Revision



40– The metamorphic marble differs from limestone in all the following except what ?

a– size of grains

b– mineral composition

c– hardness

d– porosity

**b– mineral composition**



# Final Revision



41– What are the volcanic shapes which contains successive layers of volcanic breccia and solid rocks in the shape of ropes and pillows ?

- a– volcanic bombs
- b– lava flows
- c– volcanic cones
- d– pyroclastic

**c– volcanic cones**



# Final Revision



42– How can you describe the new rock formed as a result of weathering of an igneous rock then its deposition and lithification ?

- a– massive
- b– stratified
- c– laminated
- d– crystalline

**b– stratified**



# Final Revision



43– What's the reason of spread of sharp edges gravel in the desert ?

a– water dryness

b– variation in temperature

c– oxidation

d– freezing of water in mountains regions

**b– variation in temperature**



# Final Revision



44– What's the most accurate describe for the opposite figure ?

- a– resulted from pressure force
- b– layers bend upward
- c– older layers are in the center
- d– recent layers are outside



a– resulted from pressure force



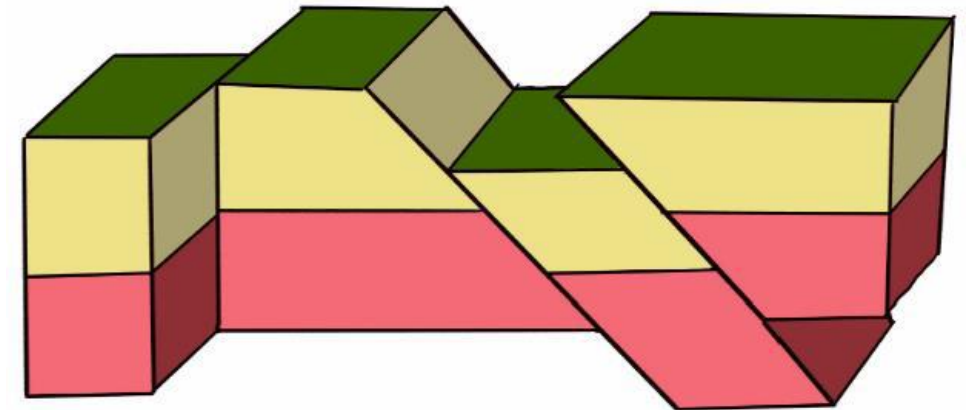
# Final Revision



45– What are the faults which are not found in the figure ?

- a– normal
- b – horst
- c – reverse

d – strike slip



**b – horst**





# Final Revision



46– Some of the gem stones are characterized by .....  
property

- a– transparency
- b– cleavage
- c– streak
- d– play of colour

d– play of colour



# Final Revision



47– The rock which contain deformed ammonites may be .....

a– granite

b– marble

c– basalt

d– sand stone

**b– marble**



# Final Revision



48- The mineral which can be found in all the rocks samples of rhyolite and andesite is .....

a- pyroxene

b- quartz

c- calcium plagioclase

d- olivine

**b- quartz**



# Final Revision



49– The rock which may contain complete non deformed fossils is .....

- a– granite
- b– marble
- c– basalt
- d– mudstone

**d– mudstone**

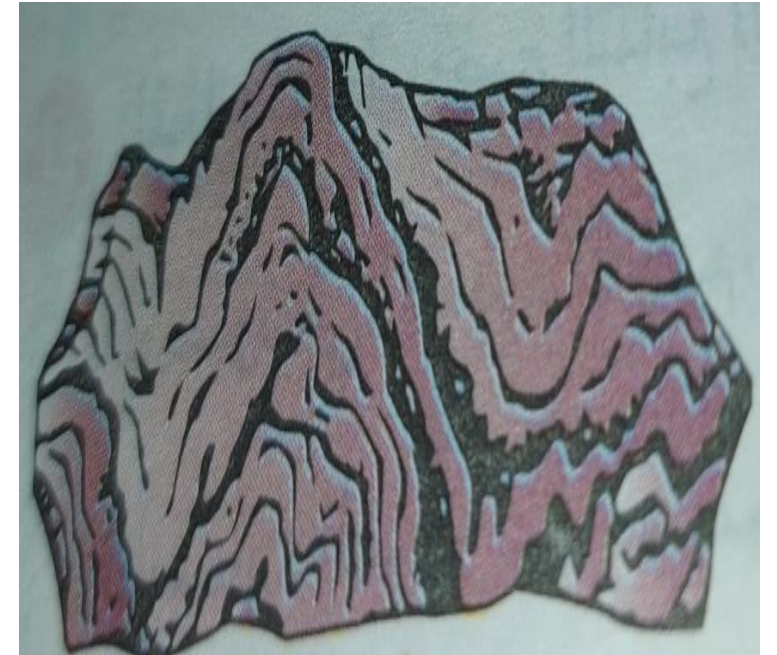


# Final Revision



50– This rock is of foliar texture with large crystals of amphibole, quartz and feldspars arranged in lines .This rock may be .....

- a– slate
- b– mica schist
- c– gneiss
- d– quartzite



**c– gneiss**



الأستاذ / محمد النحاس

مع تمنياتنا بالتوفيق  
الإدارة العامة للتعليم الإلكتروني