

[الأسئلة في خمس صفحات]

تنبيه مهم : يسلم الطالب ورقة امتحانية باللغة العربية مع الورقة المترجمة .

Answer (Four) questions only of the following:**The First Question:****(A) Choose the correct answer from those between brackets for each of the following.****And then underline it:**1- A zone consists of molten iron and nickel having density of about 10 g / cm^3 **(crust – mantle – outer core – inner core)**

2- It is preferable to use oil more than coal because oil

(is easy to be transported and stored – has less thermal value –**has higher mining cost – more polluting to environment)**

3- A mineral has hardness 3 and glassy non-metallic luster is.....

(feldspar – calcite – quartz – gypsum)

4- All the following are secondary geological structures in Earth's crust rocks

except.....**(reverse fault – mud cracks nonconformity surfaces – joints – syncline fold)**

5- The activity of the daytime animals decreases gradually and then returns to their homes in the period.

(dawn – sunset – daytime – night)**(B) Choose from group (B) what is matching with group (A). Put the number of the correct statement between the brackets at the end of each statement in group (A):**

Group (A)	Group (B)
a) The desert animal that has big ears to collect sound waves from far distances. ()	1- Red algae
b) When the rate of grass growing is more than the rate of animal consumption of this grass. ()	2- Overgrazing
c) They can make their food at depth down to 15 meters in sea water. ()	3- Fennec fox
d) They depend on green plants for their food. ()	4- Consumers
e) When the rate of grass growing is less than the rate of animal consumption of this grass. ()	5- Jerboa
	6- Organized grazing
	7- Brown algae

[بقية الأسئلة في الصفحة الثانية]

The Second Question:

(A) Put the number of the scientific term that is indicated by each of the following phrases between the brackets:

Terminology: 1- Residual Soil 2- Tropism 3- Eroding soil
4- Axial plane 5- Abyssal Zone 6- Renewable resources

Statements:

- a) The imaginary plane which divides the fold into two equal and identical parts in all aspects. ()
- b) A soil formed in its place from the same bottom rock and it's characterized by gradual texture. ()
- c) The removal of the top layer of the soil surface to be used in making red bricks. ()
- d) A sea zone contains red clay of volcanic deposits. ()
- e) The localized movement of the plant without movement of the body due to growth in the direction that determines the position of the external stimulus from the plant. ()

(B) Give reasons for each of the following : (**Underline the correct answer**):

- 1- The roaming crustaceans keep all day under sea water and migrate during the night to the surface because of.....
(**looking for food – being affected by ultraviolet light – decreasing of the activity and size of the sexual glands – laying eggs**)
- 2- Diorite rock is characterized by coarse (large-sized crystals) crystalline texture because.....
(**the slow cooling of magma deep underground – the rapid cooling of magma deep underground – the slow cooling of lava above the earth's surface – the rapid cooling of lava above the earth's surface**)
- 3- The organic fertilizers have a major role in the natural environment as they
(**led to the deterioration of the soil – cause the soil to lose desirable physical characteristics – involve into the food chains – deactivate living organisms in the soil**)
- 4- Oil is not mineral for a geologist specializing in mineralogy because it
(**is liquid and non-organic origin – has distinct crystalline form – is liquid and non-organic origin – has a definite chemical structure**)
- 5- The foliation property appears in shale or laminated mud as a result of.....
(**compressing mud components – exposure of the granite to temperature and pressure – exposure of the mud rock to temperature and pressure – exposure of shale to high pressure and low temperature**)

The Third Question:

(A) Put (Y) in front of correct statement and (×) in front of incorrect statement for each of the following:

- 1- Halite is a mineral that has rhombohedra cleavage. ()
- 2- The spores revert to form cyst when the temperature of the medium where they live becomes unsuitable. ()
- 3- The angular unconformity surface is between layers , the older group layers are igneous rocks and the younger layers are horizontal sedimentary rocks. ()
- 4- The environmental recourses are everything found in the natural environment from components which man has nothing to do with its presence or creation, but he depends on it in his various life aspects. ()
- 5- Stalactites and stalagmites are formed in caves as result of degradation of underground water. ()

(B) Put (Y) in front of rock type which each of the following is belongs to:

No	Rock Name	Rock Type		
		Sedimentary	Metamorphic	Igneous
1	Conglomerate			
2	Quartzite			
3	Gabbro			
4	Phosphate			
5	Rhyolite			

The Fourth Question:

(A) Mention one example for each of the following: (put the number of suitable example in front of each phrase):

The examples:

- | | | |
|-------------------------|-------------|-----------------|
| 1- Temporary vegetation | 2- Cambrian | 3- Cubic system |
| 4- Spraying irrigation | 5- Gypsum | 6- Jurassic |

Statements:

- a) A Period characterized by domination of trilobites and the appearance of skeletal organisms. ()
- b) A mineral is formed as a result of adding water to the anhydrite mineral. ()
- c) Annular plants appear in winter after the rain and disappear by the arrival of draught in summer. ()
- d) A crystal system has three axes that are equal in lengths and perpendicular angles. ()
- e) An irrigation method is used to treat water wasting and rationalize consumption. ()

(B) What would happen in each of the following...? (Underline the correct answer):

- 1- When the wind carrying sand collides with a cusp or obstacle, are formed.
(sand dunes – dry delta – triangular or pyramid shape gravels – mature soil)
- 2- When evaporation rate of sea water decreases as a result of a decrease of temperature and increase rain and water falls from river mouths, the
(dissolved salt concentration decreases – dissolved salt concentration increases – types of soluble salts differ – concentration of sodium chloride increases)
- 3- A fault is resulting by tension where the hanging wall is moving downward along the fault plane with respect to the footwall forming..... fault.
(normal – reverse – thrust – horst)
- 4- Passing of ground water containing carbon dioxide and dissolved acidic salts through the limestone rocks, are formed.
(fossils – petrified wood – talus slope – caves)
- 5- Over-cutting of forests trees leads to.....
(increasing of raw materials for the wood industry – protection of animals from extinction – deterioration of the soil and the natural vegetation – decreasing of temperature due to the increase of carbon dioxide gas)

The Fifth Question:

(A) Complete each of the following statements: (put the number of suitable word in front of each phrase):

Words:

1- biosphere

2- porphyritic

3- pyrite

4- physical geology

5- natural protectorates

Statements:

- a) We should establishto protect the rare endangered species from extinction.
- b) A mineral which has golden colour and black streak is.....
- c) A branch concerned with studying the external and internal factors and their effect on the rocks of this planet is.....
- d) A rock texture which consists of large crystals between smaller crystals characterizing the intruded igneous rocks is
- e) The area extending between the deepest seas to the highest mountains altitude where life exists is.....

(B) Study the opposite figure carefully. Put the number on the figure in front of the suitable word:

- a) The original rock. ()
- b) Subsoil. ()
- c) Mature soil. ()
- d) Topsoil. ()
- e) Upper the original rock. ()

