

20- Third tropic : small fish, crustacean and molluscas (2examples)

Fifth tropic: larger fish, marine birds, seagulls (2exampes)

21- Student book page no. 94

22- Student book page no. 17

23- Due to the variation in temperature distribution in mantle (half m.) which forms rotational convection currents in magma in the upper part of mantle.(half m.)

24- a- the roots extend vertically to absorb the deep ground water(half m.)
b- the roots extend horizontally under the soil surface to absorb the dew drops.
(half m.)

25- 1- presence of rounded conglomerate lie beneath the surface of
unconformity.(half m.)
2- sudden change in the sequence of fossil contents between the layers.(half
mark)

26- Introduce continental drift theory.

27- put Mohs scale for hardness .

28- Put and developed the Richter scale to measures the magnitude of
earthquake.

29-destroys the soil that was formed through millions of years and make it
unsuitable for agriculture.

30-it will metamorphism into gneiss rock and its mineral crystals are arranged in
parallel rows and intermittent.

31- the water expands and its density is decreased and floats to the surface where
it freezes thus protecting the aquatic life from freezing.

32- it will have mud cracks (half m.)primary structures (half m.)

33- leads to the formation of the mountains chains as Himalaya.

34- 1- if it broken down to pieces in the size of gravel each grain contains 3 minerals of granite rock (half m

2- if it breaks into a sand grains size , each grain will consist only of one mineral (half m.)

35- Color the walls of the caves.

36- To classify the types of mineral crystal systems.

37- used for roads pavement.

38- used in making ceramic.

39- To scratch all other minerals , has a hardness of 10

40- to measure the intensity of Earthquakes.

41-

Temporary vegetation	Permanent vegetation
Annual plants appear only in the winter after the rain and wither away by the arrival of draught in summer and disappears after leaving its seeds in the soil.	True xerophytes plants in the form of herbs ,bushes and trees, characterized by the increase in the ratio of root system to the shoot system

42-

Normal fault	Reverse fault
1-Resulting by tension. 2- Hanging wall is moving downward.	1- Resulting from compression. 2- Hanging wall is moving upward.

43-

Diorite	Andesite
1- plutonic 2- coarse texture 3- Slow cooling.	1- volcanic 2- fine and glassy texture 3- lava cools very fast.

44-

sima	Sial
1- forms seas and oceans beds 2- heavy basaltic rocks 3- high density	1- forms continents 2- granitic rocks 3- low density.

45- Unconformity surface is denudation or non-deposition surface, it is clear and distinctive, it separates between two groups of rock masses and indicates the absence of deposition or periods of time up to tens of millions of years.

46- streak: is the color of the powdered mineral that we get it by scorching mineral on a piece of unpolished porcelain.

47- overgrazing: the rate of grass growing less than the rate of animal consumption of grass

48- Unconformity surface.

49- Dyke - intruded igneous rocks

50- AA”

51- Metamorphic rocks

52- Silicon dioxide (7) will scratch calcium carbonate (3)

53- Increase in the size of the crystals forming coarse grains texture, and metamorphism to quartzite.

54- It does not decompose dead bodies of plant and animals and does not release compounds of c, p, N... to the soil.

55- No delta will be formed, the river will be normal downstream only bec. The strong current sweep the sediments that formed by the river.

56- Pleistocene epoch

57- Olivine and pyroxene

58- Maturity

59- Organic matter

60- Secondary waves

The end

