GEO 100 20 exam questions for GENERAL GEOLOGYQUESTIONS:

1: Time: 4 min Points: 5

The classification diagram of clastic sedimentary rocks needs to be studied (after Pettijohn –the so-called ‘toblerone’ plot in the notes and from your practicals.2:

Time: 2 min Points: 2

Since when life does exist on earth?

3: Time: 5 min Points: 5

Several sedimentary rocks are differentiated in clastic and chemical rocks. Why rounded grains can be found in clastic sedimentary rocks?

4: Time: 5 min Points: 3

Why most of the crystals are elongated and not round or small and round?Help yourself with a sketch.

5: Time: 3 min Points: 3

Why would you study a volcanic rock in a sedimentary succession where oil has been found?Name several aspects.

6: Time: 6 min Points: 6

Why is it important to study grain sizes and grain forms in clastic sedimentary rocks?7: Time:1 minPoints: 2 Why only few fossils can be found in conglomerates?

8: Time: 1 min Points: 2

Why do you find Carboniferous glacial rocks in North Africa today?

9: Time: 8 min Points: 8

Explain why Norway is an excellent example to demonstrate that we are in an icehouse time (a cold time) and what are the effects of glaciations and deglaciations for sea-level and the continents.

10: Time: 5 min Points: 6

Why a mantle and plate tectonics are paramount for the existence of life as we know it?

11: Time: 7 min Points: 7

Draw very rough and sketchy a trilobite, bivalve, graptolite, sea urchin, brachiopode, coral, ammonoidea as such that they are clearly identifiable.

12: Time: 5 min Points: 4

What typicaltectonic setting controls the earthquake activity in Chile? What is the reason for earthquakes in California or Haiti?Manifest your text with labelled sketches.

13: Time: 4 min Points: 4

Why we know that the outer core is fluid?Please add sketches.

14: Time: 3 min Points: 3

Explain how earthquakes work.

15: Time: 3 min Points: 4

Draw and explain very short what a pyroclastic flow (ignimbrite) is !A sketch will help.

16: Time: 6 min Points: 6

Draw the Hjulstrøm diagram and explainwhy mud is so exceptional.

17: Time: 4 min Points: 5

Why some minerals are stable and resistant against transport and weathering and others not?

18: Time: 5 min Points: 5

How ripples are formedin sediments?Add sketches with labels.

19:Time: 5 min Points: 5

What is a trace fossil? Where do you find those?

20: Time: 4 min Points:6

Draw the top half of the Streckeisen diagram for volcanic rocks and label it.