

Practical Geo Field evaluation – Site A (Yanaidani)

Student number:	Name:
Team:	Group:

Field kit: Hand lens

Time limit: 10 min.

Strata in the exposure are divided into the lower and upper units. At the basal part of the upper unit, there is a fossiliferous bed (a bed with dense aggregation of fossils). Read the following questions (A1 to A5), and circle one letter that corresponds to the correct answer.

A 1. Observe the rock exposure from a distance. What can you conclude?

- 10**
- a) It is a sedimentary rock
 - b) It is a plutonic rock
 - c) It is a volcanic rock
 - d) It is a metamorphic rock



A 2. What is the most appropriate rock name of the lower unit?

- 5**
- a) Limestone
 - b) Tuff
 - c) Obsidian
 - d) Sandstone **3**
 - e) Schist
 - f) Rhyolite
 - g) Basalt
 - h) Chert
 - i) Mudstone **5**
 - j) Gabbro
 - k) Gneiss
 - l) Granite

A 3. What is the most appropriate rock name of the upper unit?

- 5**
- a) Limestone **3**
 - b) Tuff
 - c) Obsidian
 - d) Sandstone **5**
 - e) Schist
 - f) Rhyolite
 - g) Basalt
 - h) Chert
 - i) Mudstone
 - j) Gabbro
 - k) Gneiss
 - l) Granite

A 4. What is the most appropriate stratigraphic relationship between the lower unit and the upper unit?

- 10**
- a) Conformity
 - b) Unconformity
 - c) Intrusion
 - d) Fault

Please turn over

A 5. To what group are the dominant fossils in the fossiliferous bed related?

10

- a) Bivalves (scallops and clams)
- b) Brachiopods (Spirifer)
- c) Ammonites
- d) Corals