

I worked with the following classmates:

NAME _____

Invertebrate Paleontology Lab
Quiz 4 (4th of 6) 20 points

1A. This fossil is a (circle the correct one)

Gastropod

Cephalopod

1B. The distinguishing characteristic between these two groups is

planispiral coiling presence/absence of septal walls size coiling direction

2A. This marine assemblage is typical of the _____ Era.

2B. Circle the best group of 3 terms that fits this sample:

inner shelf

slope

rocky intertidal

clean water

muddy water

high wave energy

Ordovician Period

Cambrian Period

Cretaceous Period

3A. This fossil cephalopod is a member of the _____ Subclass

3B. Circle the best group of 3 terms that fits this sample:

top predator

grazer

detritivore

Early Paleozoic

early Paleozoic

late Paleozoic

Straight sutures

straight sutures

saddle and lobe sutures

4A. Nautiloid shells differ from Ammonoid shells primarily in the _____, where the septal walls meet the outer shell.

4B. This difference also includes (circle the correct answer)

Coiling direction siphuncle position number of chambers presence of CaCO₃

5A. This marine assemblage is typical of the _____ Era.

5B. Based on the members of this assemblage, the likely age of this assemblage is:

Ordovician Period

Devonian Period

Triassic Period

Cretaceous Period

6A. This fossil cephalopod has a visible “mother of pearl” layer of CaCO_3 , which is the mineral _____

6B. This mineral is metastable, and over millions of years (> 70 my), re-orders to form the mineral _____.

7A This fossil cephalopod is a member of the _____ Subclass.

7B Circle the best suture pattern that fits this sample:

Goniatite

Ceratite

Ammonite

8A This fossil cephalopod is a member of the _____ Subclass.

8B Circle the best suture pattern that fits this sample:

Goniatite

Ceratite

Ammonite

9A This cephalopod is a member of the _____ Subclass.

9B Circle the best group of three terms that fits this specimen:

Goniatite

Ceratite

Ammonite

10A This fossil cephalopod is typical of the _____ Subclass

10B Circle the best group of 3 terms that fits this sample:

Nautilus

Ammonite

Belemnite

Predator

predator

rostrum

phragmocone

phragmocone

crystalline calcite