

I worked with the following classmates:

NAME _____

_____Invertebrate Paleontology Lab
Quiz 5 (5th of 6) 20 points

1A This is the fossilized molt of a trilobite _____ (circle the correct answer)

pygidium telson cephalon thorax siphuncle

1B. Most trilobites were (circle the correct answer)

Marine benthic arthropods Nonmarine benthic arthropods Planktonic marine arthropods

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	Permian Period	Cretaceous Period

3A. This is the fossilized molt of a trilobite _____ (circle the correct answer)

pygidium telson cephalon thorax siphuncle

3B The mound located between the eyes on this specimen is the (circle the correct answer)

Genal angle Glabella phragmocone rostrum

4A. This fossil trilobite has eyes that are (circle the correct answer)

Holochroal Absent Schizochroal Vestigial

4B. Circle the best group of 3 terms that fits the eyes in this sample

Calcite crystals	Silica crystals	Calcite crystals
c-axis	c-axis	a-axis
exoskeleton	exoskeleton	exoskeleton

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 Cretaceous Period Tertiary Period

6A These are the fossilized molts of trilobite _____ (circle the correct answer)

pygidia telsons cephalons thoraxes siphuncles

6B A feature of trilobite evolution is the trend (circle the correct answer)

Towards increasing segmentation
or decreasing segmentation

Towards highly specialized appendages

7A This fossil crustacean is of the Order _____, meaning 10 legs

7B Crustaceans often fuse the mineral _____ to their chitin exoskeleton

8A These are pieces of the shell of a common crustacean, the Cirripedia, known commonly as _____

8B Circle the best group of three terms that fits this sample:

Rock or hard substrate

silt and clay substrate

fine grained substrate

Marine

marine

fresh water

Planktonic larvae

benthic larvae

planktonic larvae

9A This fossil trilobite is a member of the order Agnostida. Its habitat was (circle the correct answer)

Marine benthos

Marine plankton

Nonmarine benthos

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

Planktonic

benthonic

planktonic

Scavenger

detrital feeder

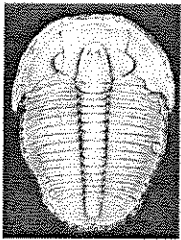
blind

Late Paleozoic

early Paleozoic

early Paleozoic

10A. This trilobite has characteristics of early Cambrian trilobites, including



(circle the correct group of terms)

Wide glabella

Narrow glabella

Wide glabella

Genal Spines

Genal spines

rounded genal angle

Large pygidium

small pygidium

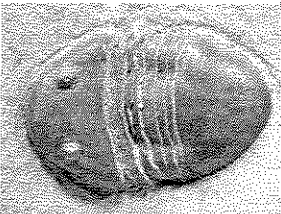
large pygidium

Few thoracic segments

Many thoracic segments

Few thoracic segments

10B. The evolutionary trend that distinguishes the upper trilobite from this one is: (circle one)



Size fusion/reduction of segments size of cephalon eyes