

I worked with the following classmates

NAME _____

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

1A. This marine assemblage is typical of the _____ Era.

1B. Circle the best group of 3 terms that fits this sample:

- | | | |
|--------------------|----------------|-------------------|
| inner shelf | slope | rocky intertidal |
| clean water | muddy water | high wave energy |
| Miss-Penn. Periods | Permian Period | Cretaceous Period |

2A This fossilized echinoderm is a _____ (name the Class)

2B. Most members of this group were (circle the correct answer)

Marine benthic filter feeders Nonmarine benthic filter feeders Planktonic marine predators

3A. This fossil echinoid is (circle the correct answer)

- | | |
|---------|-----------|
| regular | irregular |
|---------|-----------|

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

- | | | |
|------------------|-----------------|-----------------------|
| calcite crystals | Silica crystals | Calcite crystals |
| exoskeleton | ossicles | ossicles |
| holochroal | exoskeleton | water vascular system |

4A. This is the fossilized remains of _____ (name the Class)

4B Circle the best group of 3 terms that fit this sample

- | | | |
|---------------|---------|------------------|
| bioherm | bioherm | bioherm |
| columnals | pygidia | calyces |
| Shallow shelf | slope | rocky intertidal |

5A This fossil echinoderm is a _____ (name the Class).

5B The ossicles are composed of individual (circle the correct answer)

- | | | |
|-----------------|------------------|------------------|
| Quartz crystals | Calcite crystals | chitinous plates |
|-----------------|------------------|------------------|

6A This is an echinoderm of the class _____

6B The madreporite visible on the central dorsal area is the control for (circle the correct answer)

Mouth & digestion water vascular system reproductive budding

7A The spiracles on the top of this calyx or theca include the openings for (circle the best group of three terms that fits this sample)

Water vascular system	water vascular system	water vascular system
Arms	stem	anus
Mouth	mouth	mouth

7B The five wide grooves visible in this specimen are the ambulacral areas, where the _____ attached (circle the correct answer)

Stem(s) arm(s) madreporite(s) gills

8A This fossil echinoderm is an _____ (name the Class)

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

Shell hash or hard substrate	silt and clay substrate	fine grained substrate
Marine	marine	fresh water
Paleozoic	Mesozoic	Cenozoic

9A This fossil echinoderm preferred a habitat that was _____ (circle the correct answer)
Benthic marine shelf/surf Planktonic marine open water benthic nonmarine

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

Planktonic	benthonic	planktonic
Scavenger	detrital feeder	blind
Paleozoic	shallow burrows	Cenozoic

10A. This fossil is the remains of a _____ (name the Class)

10B. The portion of the organism preserved here is the

Columnal calyx ambulacral arm ossicle