STATION 1

Which of these minerals show(s) conchoidal fracture?

A, B, C, D , E

Which mineral(s) show vitreous luster ?

A, B, C, D , E

Which minerals shows a single basal cleavage ?

A, B, C, D , E

Can you name them? A - _____

B - _____ C - _____

D - _____ E - _____

STATION 2

What types of rocks are all of these: Circle the correct answer

metamorphic, igneous, sedimentary

Which rocks formed at depth within the continental crust ?

A, B, C, D , E

Which might have come from Hawaii ? WHY? _____

A, B, C, D , E _____

Can you name them? A - _____

B - _____ C - _____

D - _____ E - _____

STATION 3 --- refer to Rock Cycle chart for Station 3

What rock forms at position A in the rock cycle?

shale slate granite basalt limestone

What rock forms at position B in the rock cycle?

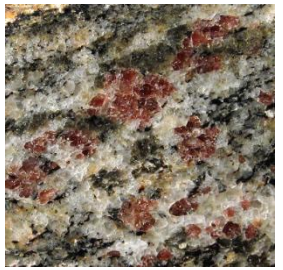
pegmatite pumice granite basalt limestone

What rock forms at position C in the rock cycle?

shale slate granite basalt limestone

At which lettered position on the rock cycle chart does the rock to the right form?

A B C D



Name the rock ? _____

What is the red mineral? _____

STATION 4

What types of rocks are all of these: Circle the correct answer

metamorphic, igneous, sedimentary

Which of these rocks is NOT a clastic rock ?

A, B, C, D, E

Which of these rocks might have been deposited in a river delta?

A, B, C, D, E

Name each rock: A - _____

B - _____ C - _____

D - _____ E - _____

Stations: January 9

STATION 1

A

B

C

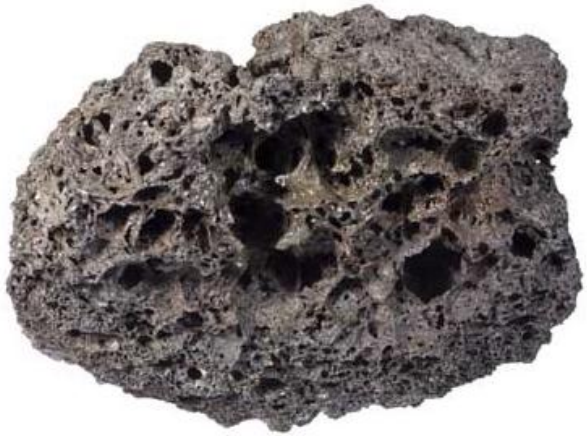
D

E

Stations: January 9

STATION 2

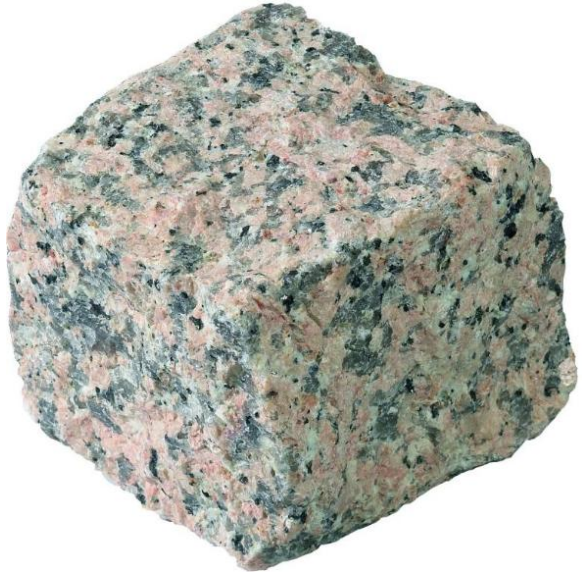
A



B

C

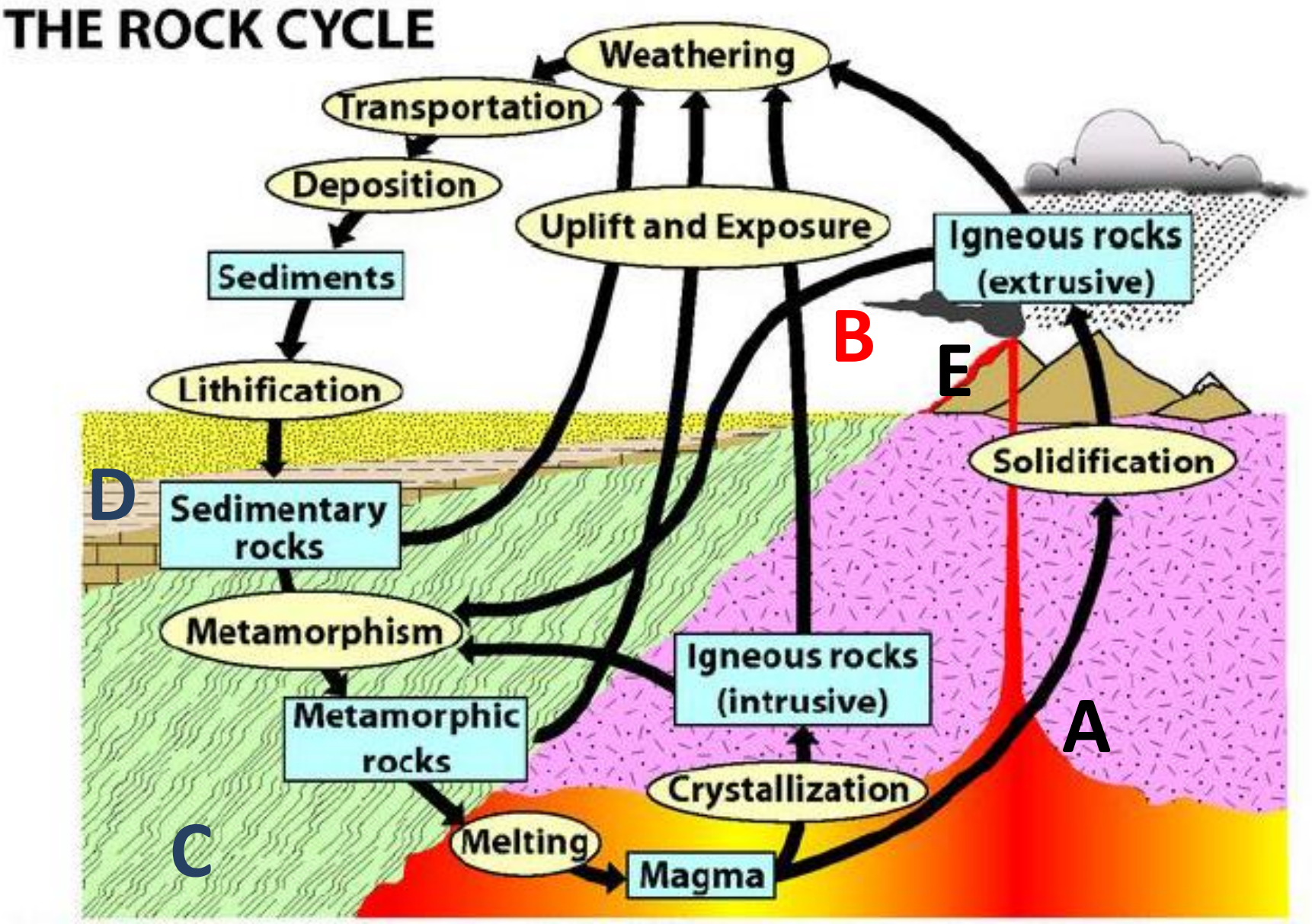
D



E

Stations: January 9

Station 3



Stations: January 9

STATION 4

A

B

C

D

E

Stations: January 9

Answers

Station 1:

B (Jasper) fractures conchoidally

A (Muscovite) shows vitreous luster.
--- perhaps C

A (Muscovite) has basal cleavage

A is muscovite
B is jasper
C is calcite
D is talc
E is hematite

Station 2:

Rocks in this station are IGNEOUS

C and D form at depth in continental regions.

A and B could come from Hawaii. Both are mafic and both are extrusve

A is scoria (and vesicular)
B basalt
C is granite (possibly diorite)
D is granite (with potassium feldspar)
E is pumice

Station 3:

Granite forms at point A
Pumice forms at point B
Slate (or other metamorphic rocks at point C

The rock depicted is garnet gneiss. It forms at point C in the diagram. The red mineral is garnet.

Station 4:

These rocks are all sedimentary.

A is not a clastic sedimentary rock.

E could have been deposited in a river delta.

A is fossilerous limestone
B is arkose
C is sandstone (mostly quartz)
D is conglomerate
E is shale

Stations: January 9