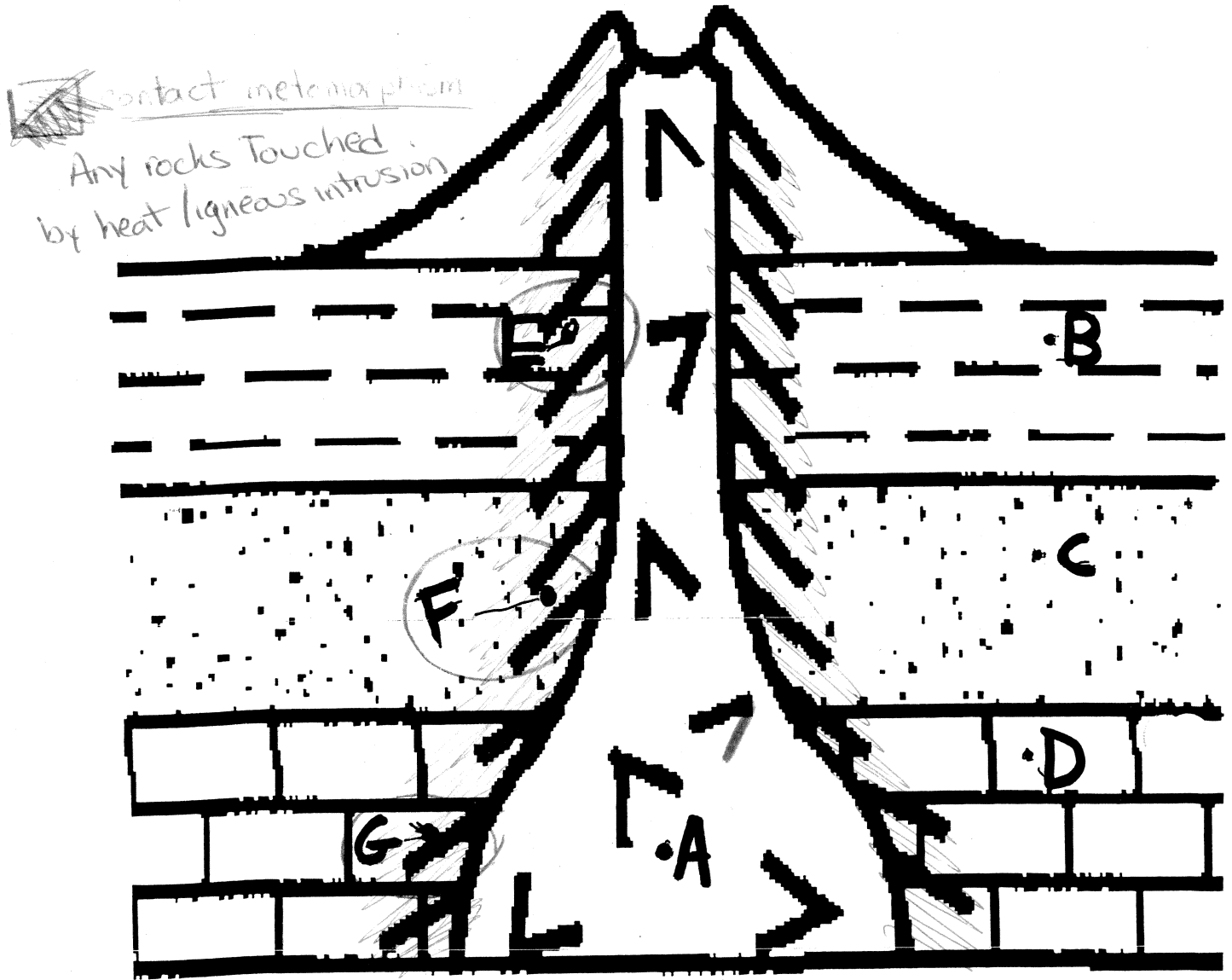


Key

How are different types of rocks formed?



Name the type of rock you would find at each location.

Rock Type (Igneous, Metamorphic, Sedimentary)

Rock Name (use symbols)

A. Igneous

B. Sedimentary

C. Sedimentary

D. Sedimentary

E. Metamorphic

F. Metamorphic

G. Metamorphic

(use the symbols/patterns
+ look at ESRT p6-7)

} in zone of
contact metamorphism

Granite A.

Shale B.

Sandstone C.

Limestone D.

→ Slate (shale metamorphs)

→ Quartzite (sandstone metamorph)

→ Marble (limestone metamorph)

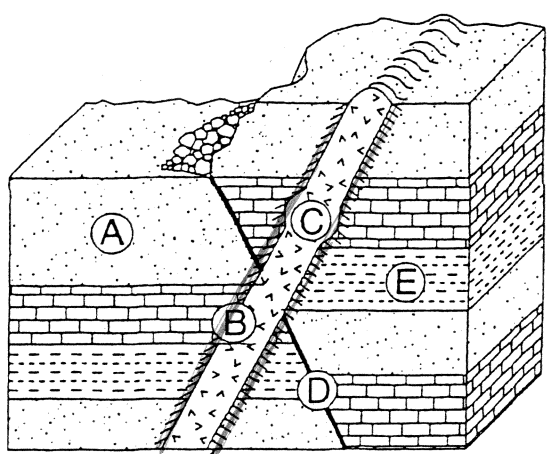
me

key

ROCKS

Exit Ticket

1. Base your answer on geologic cross section shown below.



Transition zone

Key

Sandstone	Shale
Limestone	Igneous rock
Transition zone	

At which location is metamorphic rock most likely to be found?

- (A) A
- (B) B
- (C) C
- (D) D

2. According to the Rock Cycle diagram in the Earth Science Reference Tables, which type(s) of rock can be the source of deposited sediments?

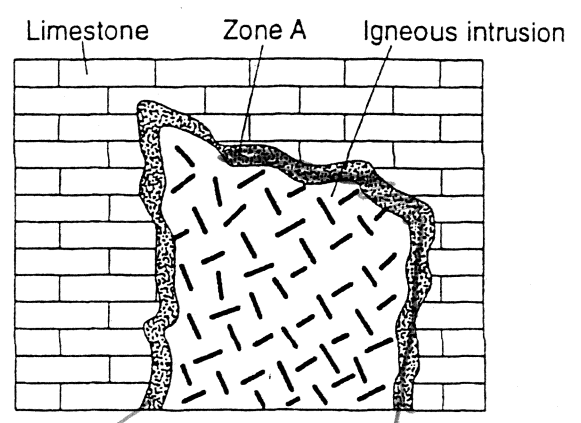
- (A) sedimentary rocks, only
- (B) igneous, metamorphic, and sedimentary rocks
- (C) igneous and metamorphic rocks, only
- (D) metamorphic and sedimentary rocks, only

3. Base your answer to the following question on the Earth Science Reference Tables.

Which processes result in the formation of sedimentary rocks?

- (A) melting and solidification
- (B) foliation and recrystallization
- (C) pressure changes and metamorphism
- (D) burial and cementation

4. The geologic cross section below shows limestone that was intruded. Part of the limestone (zone A) was heated intensely but was not melted.



limestone + heat → marble

contact metamorphism

Which type of rock most likely formed in zone A?

- (A) gneiss
- (B) slate
- (C) marble
- (D) obsidian

5. Which statement is best supported by the information shown in the rock cycle diagram in the Earth Science Reference Tables?

- (A) Igneous rocks are formed from eroded sediments of metamorphic rocks
- (B) Sedimentary rocks are composed of intergrown crystals.
- (C) Metamorphic rocks are formed by the complete melting of any other rock.
- (D) Rocks may be formed from other rocks by various processes.

6. Heat and pressure due to magma intrusions may result in

- (A) graded bedding
- (B) vertical sorting
- (C) chemical evaporites
- (D) contact metamorphism