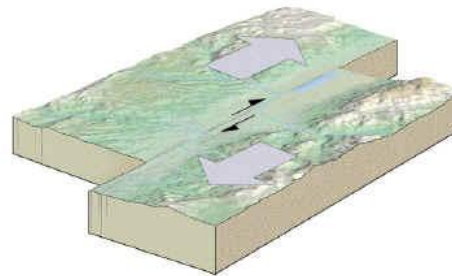
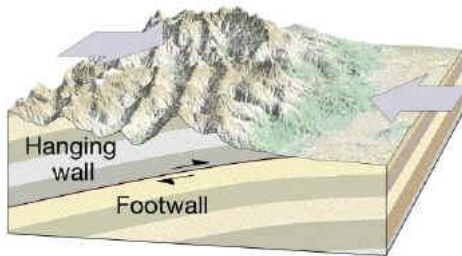
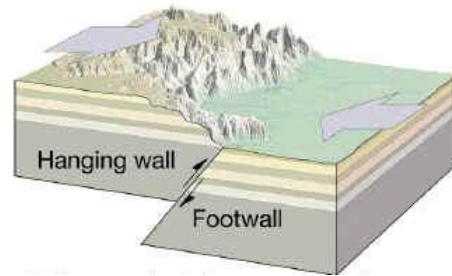
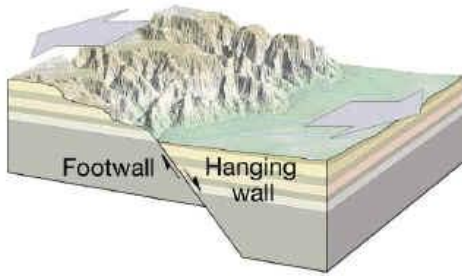


GEOG 4350 EXAM 1 REVIEW

This sheet contains example exam questions drawn from lectures and labs. Notice that geomorphology is a very visual subject – some questions may require you to draw a sketch, other questions present a sketch and ask you questions about it.

1. Name the following features; explain their origins and distinguishing characteristics.



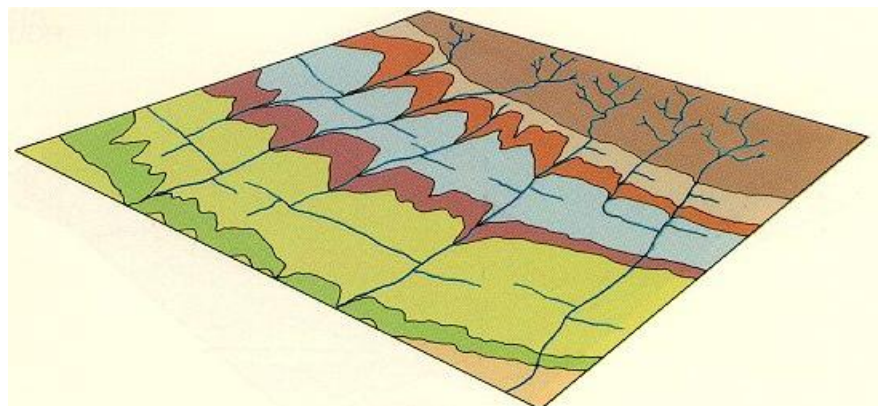
2. Define the following:

a. craton b. shield c. platform d. orogenic belt

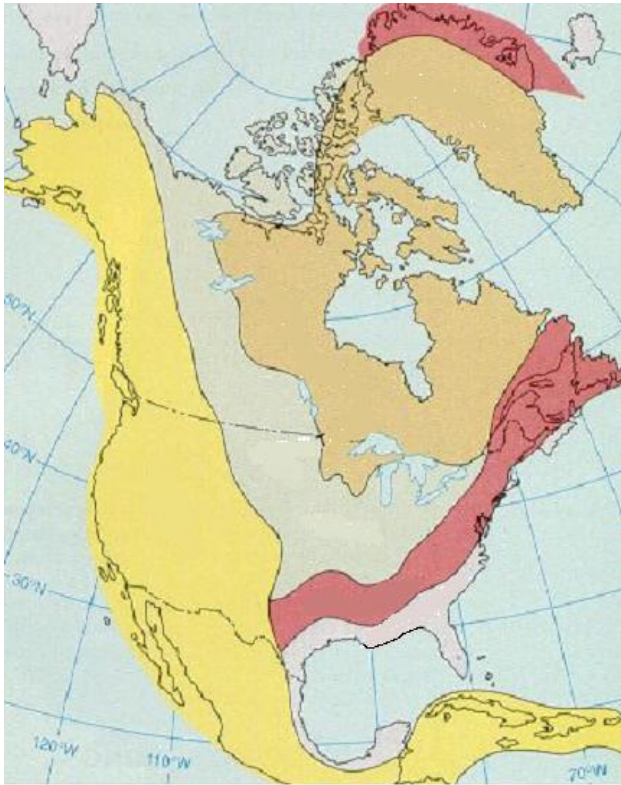
3. On a sketch **map** of Texas, indicate the location of, and write notes on, a. The Llano Estacado b. The Balcones Escarpment c. The Laramide Tectonic Front.

4. Define a. composite cone b. cinder cone c. shield volcano d. sill e. dyke

5. Use the following outcrop map to explain the “Law of V’s”



6. On the following map of North America, label each listed region (by letter) and, for each region, add descriptive notes on typical rock types, geologic structures and landforms.

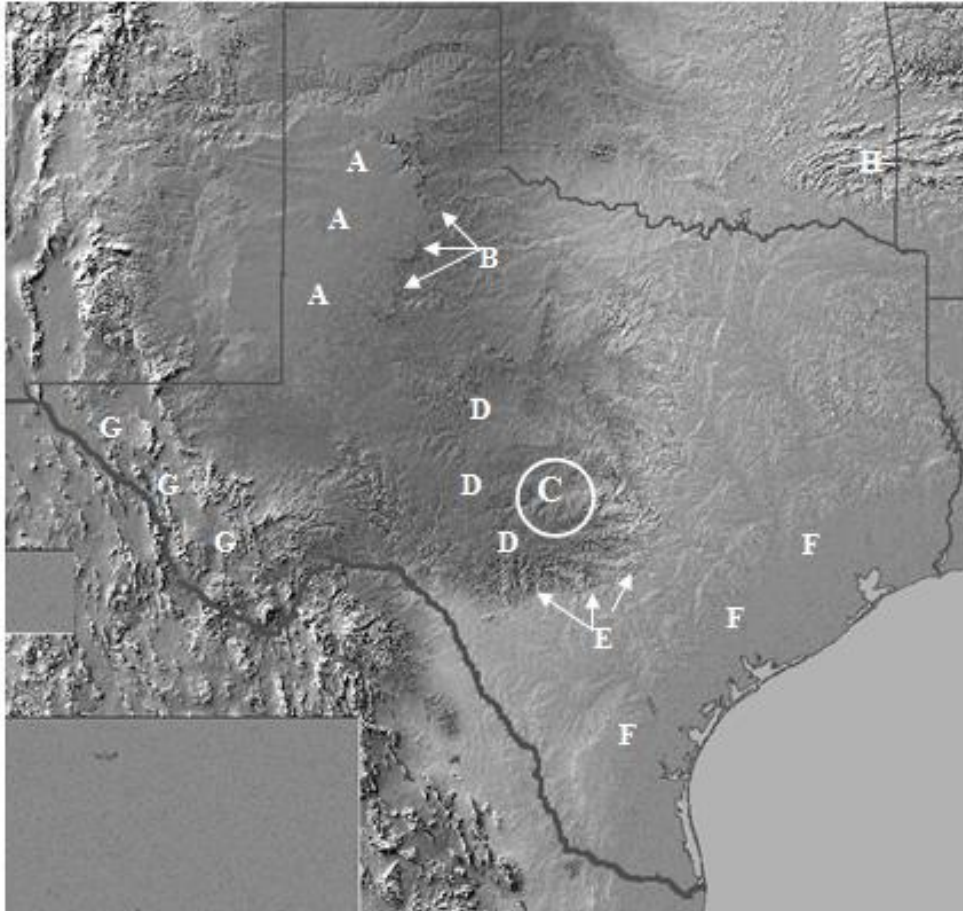


- A. Platform:
- B. Coastal plain:
- C. New orogenic belt:
- D. Old orogenic belt:
- E. Shield:

7 a. with the aid of a sketch of a geologic **map** of an area of tilted layers of sedimentary rock, explain the Law of V's.

b. with the aid of a **geologic cross-section** sketch, describe typical landforms that develop on gently tilted layers of sedimentary rock subjected to differential erosion (based on lab 2).

8. Name each indicated feature and, for each, describe origin, typical rock types, geologic structures and landforms. (A is a region; B is the edge of region A; C is a region; D is a region; E is the edge of region D; F is a region; G is a region; H is a region. All features were on lab 1).



9. What is a lahar? Why do they constitute a hazard? Name a recent example from the U.S.

10. Define a. differential erosion b. strike valley c. cuesta. How are these interconnected?

11. With the aid of sketches, describe the development of consequent streams, subsequent streams, resequent streams and obsequent streams on a newly emergent coastal plain.

12. How do granitic magma and basaltic magma differ? Describe typical landforms associated with each.

Exam 1 will consist of a choice of 4 out of 6 of the questions above.