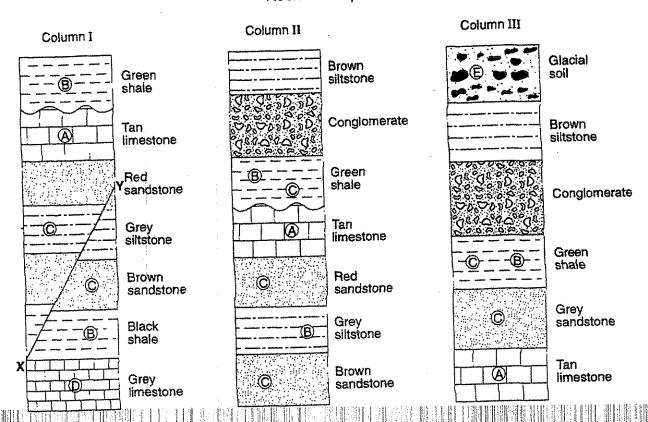
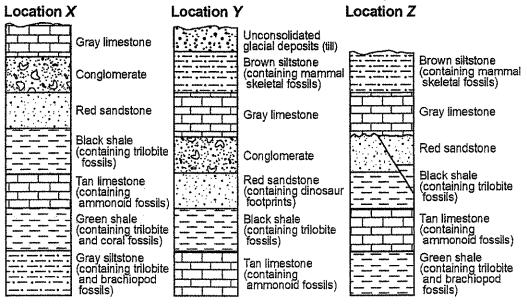
Base your answers to questions 1 through 5 on the Earth Science Reference Tables, the diagram below, and your knowledge of Earth cience. The diagram shows three geologic columns representing widely separated rock outcrops. Letters A through E represent fossils und in the outcrops. Line XY represents a fault in column I. The layers have not been overturned.

Rock Outcrops



What is the oldest layer shown? (1) glacial soil (2)	brown sandstone (3)	tan limestone	(4) grey limestone
When did fault XY, located in colum (1) before the formation of the grey (2) during the formation of the grey	limestone (2)	during the formation of the after the formation of the re	black shale d sandstone
	slate) Ivatus	(4) gneiss
4. The wavy line located between the a	la voicanic ash layer (2		
5. Fossil A, in the tan limestone layer,	is a fossil of the first known cora	d. This tan limestone layer wa	s most likely deposited dumi
which geologic time interval?		50-164-1 - 1 - 148-1 - 1 - 156-168-1-1 - 10-168-1 - 10-168-168-168-168-168-168-168-168-168-168	(4). Cenozoic

he cross sections below show widely separated outcrops at locations X, Y, and Z.



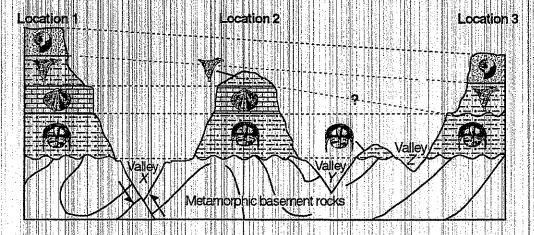
- 3) Which rock layer is oldest?
 - A) tan limestone
- B) green shale
- C) gray siltstone
- D) brown siltstone
- 4) An unconformity can be observed at location Z. Which rock layer was most probably removed by erosion during the time represented by the unconformity?
 - A) brown siltstone
- B) conglomerate
- C) gray siltstone
- D) black shale
- The fossils in the rock formations at location X indicate that this area was often covered by
 - A) desert sand
- B) tropical rain forests
- C) seawater

- O) glacial ice
- 6) At location Y the boundary between the red sandstone and the black shale marks the
 - A) end of the Cenozoic Era

C) beginning of the Mesozoic Era

B) end of the Mesozoic Era

- D) beginning of the Cenozoic Era
- The geologic cross section below shows a view of rock layers at Earth's surface. The dashed lines connect points of the same age. Major fossils contained within each rock layer are shown. The valleys are labeled X. Y, and Z.



The sedimentary rock layers at the three locations can be most accurately correlated by comparing the

- A) thickness of the sedimentary rock layers
- B) minerals in the igneous rocks

- C) fossils in the sedimentary rocks
- D) foliation bands in the metamorphic basement rocks