



Geology 330: Global Tectonics

Final Exam Spring 97/98

Time allowed: Three hours Exam rules apply							
Section A (40 marks)							
Using labelled diagrams and examples explain what is meant by and what is responsible for the following terms: (Note* where possible discuss the modes of formation). Remember no diagram = no grade.							
1)	The difference between a continental ribbon and a marginal plateau						
2)	Exotic (or suspect) terranes						
3)	Variations in the spacing of volcanoes above an intra-oceanic subduction zone						
4)	Accretionary prism processes (modes of sediment flow)						
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5)	A foreland fold- and thrust belt
6)	Back-Arc Basins
7)	Eustatic changes in sea level
8)	A passive margin
9)	Near field geodesy
10)	Fission track dating
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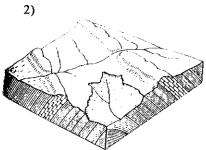
Section B (30 marks)

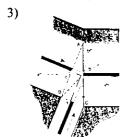
Examine the diagrams 1-5. In each case draw labelled diagrams to illustrate your view of what will happen next. Remember no diagram = no grade

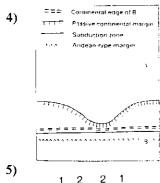
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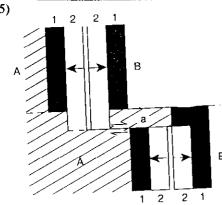












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Section C (30 marks)

Answer any two of the following essay questions.

- 1) Using the Himalayas as an example outline the models of collisional deformation.
- 2) Using diagrams and, where possible examples, discuss the kinematics of triple junctions.
- 3) Using examples explain how an understanding of planetary tectonics is of use in the interpretation of Earth history.
- 4) Give an outline of the methods that can be adopted to investigate (a) active tectonics, and (b) neotectonics in Lebanon.

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