

MIDTERM III, MTN GEOGRAPHY

NAME _____

APRIL 12, 1999

SS# _____

There are 150 possible points on this test. The amount of points vary with the questions. There is also an extra point question. I suggest that you scan the entire test before answering any questions. Good luck!

- 1 The primary control on tree height in the krummholz zone is _____ (2.5 points).
- 2 The primary control on treeline around the world appears to follow the _____ isotherm of the warmest month (2.5 points).
- 3 An aspen or subalpine fir at timberline can reproduce asexually by _____ (2.5 points).
- 4 The recent large avalanche/debris flows which occurred on Mt. Huascaran in Peru happened in these years:
_____ (2.5 points)
_____ (2.5 points)
- 5 The scientific name of the highest growing tree in the world is _____? (2.5 points).
- 6 The three main dieties of the of the Incan and pre-Incan cultures were (3 points):

- 7 The Himalayas are composed of the slivers of the _____ plate (2.5 points).

- 8 In the following diagram, label timberline forms as a function of elevation (10 points).
- 9 What are the common names of the four dominant tree species in the Colorado Front Range and how do they vary with elevation? (10 points).
- 10 What is the Coriolis Effect and how does it influence climate in the Andes (10 points)?

- 11 Indigenous cultures of the Andes often view mountains as sacred but not necessarily benign. For the Andes, explain the connection between orogeny, mass wasting processes, and sacred mountains, using these keywords: Nazca plate, avalanche, precipitation, human sacrifice, religion, culture (25 points).

- 12 Here is a geography question. Label on the map below: Tibetan Plateau, Indus River, Brahmaputra River, Indus-Tsangpo Suture Zone, Greater Himalaya, Tethys Himalaya, Tsangpo River, Sikkim, Nepal, Bangladesh, Bhutan, Siwalik Hills, and the Indo-Gangetic Plains. (2 point each, 26 points total).

- 13 You are now an expert on "*the Himalayan Environmental Degradation Theory*." Explain why India is worried that Nepalese activities will degrade farming activities in India, particularly sedimentation of fields, flooding, and drought. What activities have Nepalese farmers instituted that work to prevent some of these problems? 25 points.

- 14 You are climbing Mt. Everest and have reached the summit. You find marine fossils on the world's highest mountain. Apply the theory of plate tectonics to explain the orogeny of the Himalayas from 120 mya, 40 mya, and the present. Supplement your answer with diagrams (25 points).

EXTRA CREDIT

Which culture carved images of human faces with wide eyes and snot running out of their noses? What is the explanation for these images? 10 points.