

Volcanoes and Earthquakes Foundation Mark Scheme 2003

(a) (i) Major (1 mark)

(ii) Decreases, goes down (1 mark)

(iii) Alaska (1 mark)

(iv) 6-6.9 (1 mark)

(v) 3 x 1 mark or developed points; more violent earthquake, higher population, more flimsy buildings, secondary effects, e.g. disease, fire, tsunami, lack of emergency services, time of day. Preparedness. Not earthquake prediction.

(3 marks)

b (i)

X = Crater.

Y = Vent/pipe/conduit accept magma vent/main vent.

Z = Magma chamber/batholith.

(3 marks)

(ii) B = Compressional boundary. (1 mark)

(iii) **Level 1 (Basic) 1 - 2 marks**

Basic statements such as loss of life, homes, land animals; causes fires, tidal waves. No reference to example.

Accept positive effects e.g. fertile soil, mineralisation, tourism.

Level 2 (Clear) 3 - 4 marks

Clear statements with reference to an example and covering both environment and people, e.g. the erupting lava in Montserrat burned huge areas of trees. The eruptions of ash buried many villages and killed some people. Positive effects e.g. lava from eruption from Vesuvius has weathered to give fertile soils used for growing citrus fruit.

(4 marks)

Total (15 marks)