Question 18 (7 marks)

In your Earth and Environmental Science course you completed a case study of a recent natural disaster associated with tectonic activity.

Name the natural disaster you studied ...1999 Izmit Earthquake (Turkey)

(a) Describe the tectonic movement involved in this disaster.

North Anatolian fault is a transform boundary. On this occassion a section of crust broke off near the town of Goluk causing the plate to slip.

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(b) Describe ONE type of technology that can assist in the prediction of disasters of this kind.

Measuring the stress accumulating in the rock allows buildup of tension to be measured and a rough prediction of earthquake activity to be made.

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(c) Explain ONE method other than prediction that could be used to minimise the disastrous effects associated with this type of tectonic activity.

Buildings in areas at high risk of earthquakes should be strengthened against earthquakes to reduce the risk of destruction and the risk to the local population.

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