

3. **Figure 5** is a cross-section through part of the Earth showing three tectonic plates (**G**, **H** and **J**). Also shown is the heat flow across the section.

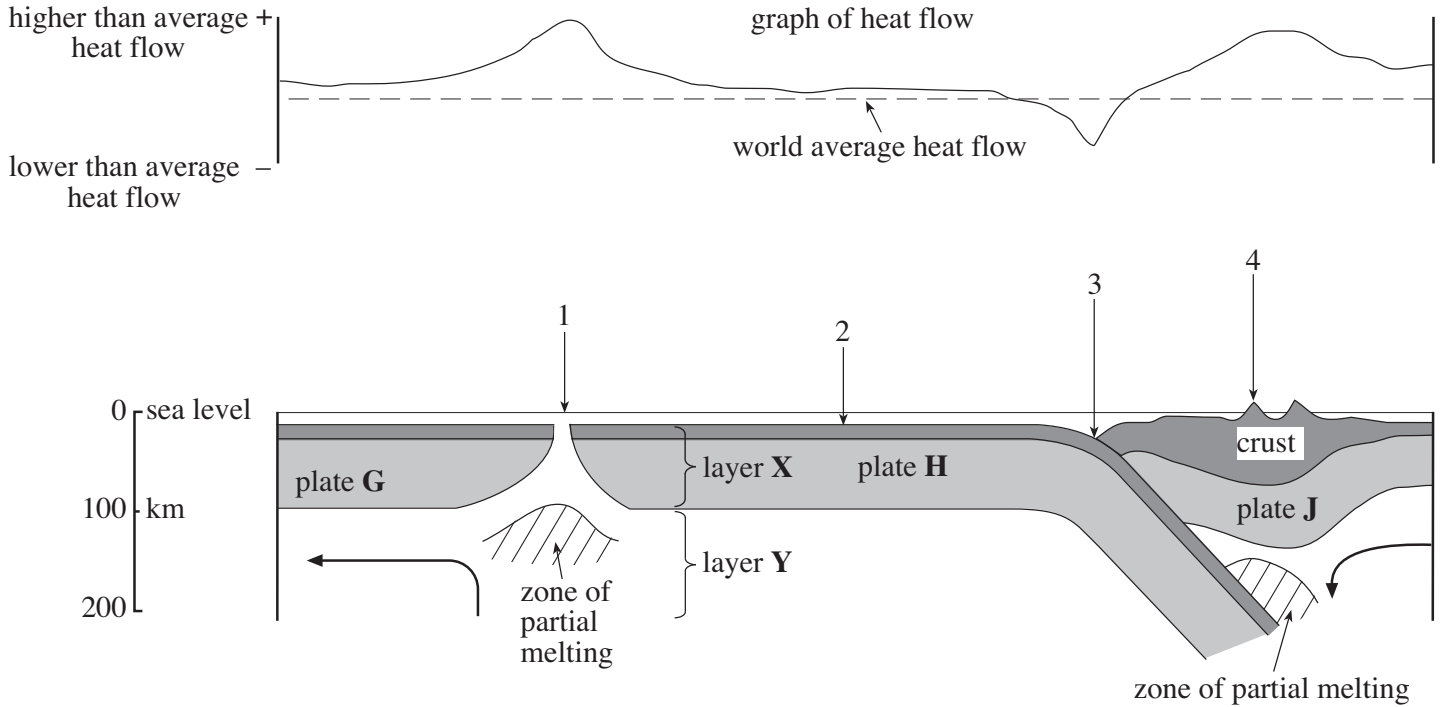


Figure 5

Refer to **Figure 5**.

(a) Four locations are numbered **1-4**. Write the number of the location in the box which correctly matches its description. [4]

constructive plate margin

destructive plate margin

volcanic island arc

abyssal plain

(b) Name layers **X** and **Y**. [2]

Layer **X**

Layer **Y**

(c) It is thought that convection currents are the cause of plate movement. Two convection currents are shown under plates **G** and **J**. Carefully draw in the probable position and direction of the convection current beneath plate **H**. [2]

(d) **Table 4** has six statements about **location 1**.

1. basaltic volcanoes	2. formation of magnetic stripes	3. low heat flow
4. high heat flow	5. andesitic volcanoes	6. deep focus earthquakes

Table 4

Three of the statements about **location 1** are **correct**. Write their numbers in the boxes below. [3]

(e) **Explain** the pattern of heat flow at locations **1** and **4**. [3]

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(Total 14)