## Section 3 – answer questions 1-10

Figure 8 is a map showing the geological features of the South American and Nazca plate boundaries.

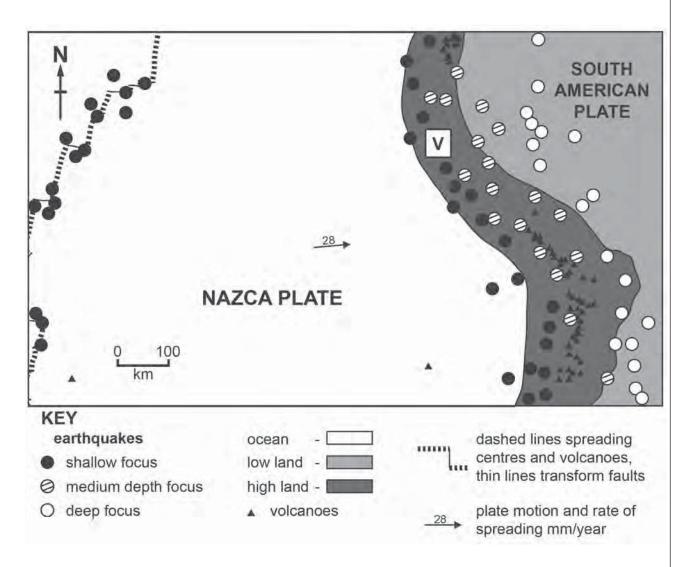


Figure 8

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1.	State which of the following geological features are present at the <b>western</b> boundary of the <b>Nazca Plate</b> . Tick ( ) only <b>two</b> boxes.	
	ocean ridge	
	deep, medium depth and shallow focus earthquakes	
	displacement by thrust faults	
	mainly andesitic volcanic activity	
	volcanic island arc	
	shallow focus earthquakes only	
2.	Name the type of plate boundary formed by the <b>western</b> boundary of the <b>Nazca Plate</b> . Tick ( <b>/</b> ) only <b>one</b> box.	1]
	convergent (destructive) oceanic-oceanic	
	convergent (destructive) oceanic-continental	
	divergent (constructive)	
	conservative	
	convergent (destructive) continental-continental	
3.	State which of the following geological features are present along the boundary between the <b>Nazca Plate</b> and the <b>South American Plate</b> . Tick ( ) only <b>two</b> boxes.	
	ocean ridge	
	deep, medium depth and shallow focus earthquakes	
	coastal mountain chain	
	mainly basaltic volcanic activity	
	volcanic island arc	
	shallow focus earthquakes only	

only

Examiner Name the type of plate boundary formed between the Nazca Plate and the South American Plate. Tick (1) only one box. convergent (destructive) oceanic-oceanic convergent (destructive) oceanic-continental divergent (constructive) conservative convergent (destructive) continental-continental Describe and explain the pattern of earthquake foci along the plate boundary between the **Nazca Plate** and the **South American Plate**. [3]

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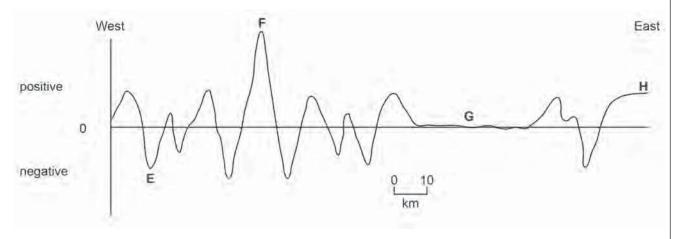


Figure 9

**6.** Letters **E–H** on **Figure 9** represent locations across the Mid-Atlantic ridge. Draw a line from each letter to the most appropriate description of that location. [4]

ridge crest

ocean trench

f

oldest portion of oceanic crust in this area

wide area where there is no magnetic anomaly

H

area of reversely magnetised ocean crust

Turn over.

	18	l=	xaminer
7.	State which of the following may contribute to plate movement. Tick ( ) only <b>two</b> boxes.	[2]	only
	cold rigid continental lithosphere		
	magnetic stripes		
	low heat flow at the ocean ridge		
	thermal convection in the mantle		
	transform faults		
	weak partially molten asthenosphere		

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