

# PLATE TECTONIC THEORY TEST

1. Explain the meaning of the terms lithosphere and asthenosphere. (4)

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2. Match the following discontinuities to the appropriate layers (3)

GUTTENBERG

INNER CORE AND OUTER CORE

LEHMANN

CRUST AND MANTLE

MOHO

OUTER CORE AND MANTLE

3. Explain why the mantle has the ability to flow (4)

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4. P and S waves slow down in the mantle

(a) why (2)

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(b) what is the layer often called?(1)

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5. List 4 differences between the oceanic crust and the continental crust (8)

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6. Describe how we have gained direct evidence for the internal structure of the Earth (3)

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7. What indirect evidence is there for the structure of the Earth? (4)

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8. Define continental drift (1)

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9. In what 2 ways is palaeomagnetism useful to geophysicists? (2)

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10. Explain how palaeomagnetism can be used to locate volcanoes when they were formed? (6)

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11. What is sea floor spreading ? (2)

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12. Why is sea floor spreading so important to plate tectonics? (1)

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13. Draw an annotated sketch of a MOR (4).

14. Name 2 plate boundaries which show seafloor spreading? (2)

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15. Name the 7 main plates on the Earth? (7)

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16. Give the alternative name for a constructive plate boundary? (1)

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17. Describe the typical landforms found at oceanic ridges, include examples (8)  
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18. Describe how rift valleys form (4)  
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19. Draw an annotated diagram of an oceanic/continental plate convergence. (6)  
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20. Name an example of the above. (1)

21. What are the 2 main landforms of oceanic/oceanic convergence? (2)

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22. Why is there very little subduction at continental/continental convergence? (2)

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23. Describe what is happening at the San Andreas fault (6)

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24. Why do convection currents occur? (4)

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25. What is the Wilson Cycle? (2)

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