DISCUSSION QUESTIONS

SESSION 6: PLATE TECTONICS

1. Why is Plate Tectonics a unifying theory?
2. Who was Alfred Wegner? What was the name of his theory?
3. What was Pangaea?
4. Explain the fossil evidence for Plate Tectonics
5. Explain the mountain belt evidence for Plate Tectonics
6. Explain the ring of fire evidence for Plate Tectonics
7. Explain the paleoglaciation evidence for Plate Tectonics
8. How did studies of the sea floor support the Plate Tectonics theory?
9. Explain paleomagnetism and paleomagnetic reversals as depicted in oceanic crust
10. Draw a diagram of a convergent plate boundary with lithosphere, asthenosphere, oceanic crust, trench, island arc, continental crust
11. List the 7 major lithologic plates
12. Distinguish between divergent, convergent and transform plate boundaries
13. The Mid Atlantic Ridge is a divergent plate boundary
14. The San Andreas fault is a transform plate boundary
15. The west coast of South America is a convergent plate boundary
16. List the 13 volcanoes produced by convergence in California, Oregon and Washington
17. India is colliding into Asia forming the Himalaya Mountains
18. Explain the importance of Wallace Creek to Plate Tectonic theory
19. Where is Parkfield?
20. What is convection?
21. Convection occurs in the asthenosphere (upper part of the Mantle)

PLATE AND MICRO-PLATE (OR TRANSFORM FAULT) PPT PRESENTATIONS

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| **PLATE OR TRANSFORM FAULT** | **STUDENT** |
| Eurasian | Antonio Rodriguez |
| Australian | Cindy Benites |
| North American | Cristion Brown |
| Juan De Fuca | Desiree Ramirez |
| Cocos | Elizabeth Sanchez |
| Pacific | Gisele Gomez |
| Caribbean | Hiwet " Layla" Zerom |
| Nazca | Jasmehar Dhillon |
| Indian | Kimberly Christmas |
| Arabian | Krystyn Moore  |
| African | Matthew Pierce |
| South American | Ochun Morris |
| Scotia | Ocean Valdez |
| Atlantic | Paige Petrungaro |
| Antarctic | Sarah Hernandez Smith |
| San Andreas Fault | Shon Stephen |
| Rio Grande Rift Zone | Tony Rodrequez |
| Dead Sea Rift Zone | Tye Hammond |