Dynamic Planet Hendrickson Invitational

Team Name: _________________________________

Results: ______

Read each question and select the best answer. Record your answer on the final sheet.

1. Define Morphology
   a. The combination of land formations
   b. The buildup of land formations onto one another sort of in a morphing manner
   c. The identification, analysis and description of the structure of a given language's morphemes and other linguistic units

2. Tectonic Plates interact at places called plate
   c. Reversals
   d. Boundaries
   e. Centers

3. Plates move at 1-16 cm per....
   f. Month
   g. Year
   h. Day

4. The plate tectonics theory states that...
   i. Tectonic forces cause the most damage in the center of the plates
   j. Lithospheric plates move
   k. Oceanic crust “slides over” continental crust

5. Where are the most divergent plates found
   l. Along the coast line
   m. On the seafloor
   n. At subduction zones
6. What is the name of the Mesozoic supercontinent that consisted of all of the present continents?
   a. Pandora
   b. Pangea
   c. Eurasia

7. What two scientists proposed the theory of seafloor spreading in the early 1960s?
   a. Harry Hess and Robert Dietz
   b. John Butler and Arthur Smite
   c. Charles Darwin and James Hutton

8. The theory of plate tectonics was widely accepted by ________.
   a. about 1950
   b. about 1960
   c. about 1970

9. Approximately how many lithospheric plates are there?
   a. 6
   b. 12
   c. 24

10. The East coast of North America represents...
   a. Divergent boundary
b. Convergent boundary

c. None of the above

11. Which segment of the Atlantic ocean open first?

a. Northern

b. Southern

c. Central

12. Loihi excites geologists because it represents a:

a. An instrument that detects gases

b. A new divergent boundary currently forming at the bottom of the Indian ocean

c. A new Volcano that’s youngest in the Hawaiian chain.

13. Lines on the seafloor that connect rocks of the same age are called

a. Isograds

b. Isotopes

c. Isochrone

14. The East Coast of north America represents...

a. Convergent plate

b. Divergent plate
c. There is no plate

15. Which of the following rock types would you least expect to find in layer 1?

   a. Limestone
   
   b. Sandstone
   
   c. Shale

16. What type of rocks make up layer 2

   a. Basalt
   
   b. Granite
   
   c. Gabbro

17. What type of rocks make up layer 2

   a. Basalt
b. Gabbro

c. Granite

18. What is the topographic feature at A called

a. Oceanic rift

b. Oceanic Basin

c. Oceanic Trench

19. Feature B, called a ________, consists of chaotically mixed and deformed rocks.

a. Forearc Basin

b. Melange

c. Suture

20. What type of metamorphism occurs in region B?
a. Low Temp., Low Pressure

b. High Temp. High Pressure

c. Low Temp., High Pressure

Record your final answers below.

1. ___

2. ___

3. ___

4. ___

5. ___

6. ___

7. ___

8. ___

9. ___

10. ___

11. ___

12. ___

13. ___

17. ___

18. ___

19. ___

20. ___