

Intermediate Science 7
Unit 4: Earth Crust
STSE: Seeing The Big Picture



Student Name: _____

PART A: MULTIPLE CHOICE.

[25]

Instruction: Circle the correct answer below each question. Also, transfer your answers to the bubble sheet provided.

1. When was the earliest evidence of human?
 - (A) 600 years ago
 - (B) 160 000 years ago
 - (C) 200 000 years ago
 - (D) 300 000 years ago

2. Where did humans first originate and spread out from?
 - (A) Africa
 - (B) Bermuda
 - (C) Canada
 - (D) United States

3. What is meteorology?
 - (A) Study of life
 - (B) Study of matter
 - (C) Study of force, motion and energy
 - (D) Study of weather

4. Which of the following might you observe if you looked at a map of the world?
 - (A) Continents fit together like a puzzle
 - (B) Continents are very small
 - (C) Oceans fit together like a puzzle
 - (D) Oceans are very small

5. Which of the following can be used as evidence that shorelines of different continents once fit together?
 - (A) Fossils
 - (B) Oceans
 - (C) Climate
 - (D) Plants

6. From looking at rock and fossils on different continents, what can be concluded about continents?
 - (A) They are moving
 - (B) They are at rest
 - (C) They are being eroded
 - (D) They were never connected

7. What theory proposed the idea that continents moved over time?
- (A) Continental drift
 - ✓ (B) Continental tectonics
 - (C) Plate drift
 - (D) Plate Tectonics
8. Who proposed the Theory of Continental Drift?
- ✓ (A) Alfred Wegener
 - (B) Jamie Hutton
 - (C) Harry Hess
 - (D) Tuzo Wilson,
9. When was the Theory of Continental Drift proposed?
- ✓ (A) 1912
 - (B) 1930
 - (C) 1960
 - (D) 1972
10. When was the Theory of Continental Drift finally accepted?
- (A) 1912
 - (B) 1930
 - (C) 1960
 - (D) 1972
11. Who proved the Theory of Continental Drift?
- (A) Alfred Wegener
 - (B) Jamie Hutton
 - (C) Harry Hess
 - (D) Tuzo Wilson
12. What was used to prove the Theory of Continental Drift?
- (A) Mountain chain running the length of the Atlantic Ocean
 - (B) Mountain chain running the length of the Pacific Ocean
 - (C) Sediments found on the sea floor of the Atlantic Ocean
 - (D) Sediments found on the sea floor of the Pacific Ocean
13. What instruments was used to prove the Theory of Continental Drift?
- (A) Seismographs and Sonar
 - (B) Seismographs and Magnetometer
 - (C) Sonar and Magnetometer
 - (D) Remote Sensing and core sampling
14. What theory replaced Theory of Continental Drift?
- (A) Continental dish
 - (B) Continental tectonics
 - (C) Plate drift
 - (D) Plate Tectonics

15. What was the previous name of the Atlantic Ocean?
- (A) Atlas
 - (B) Iapetus
 - (C) Petus
 - (D) Atpetus
16. According to evidence from fossils, what part of Africa was attached to the Avalon Peninsula?
- (A) Eastern
 - (B) Northern
 - (C) Southern
 - (D) Western
17. According to scientists, how fast is our continent moving a year?
- (A) 3 mm
 - (B) 3 cm
 - (C) 3 m
 - (D) 3 km
18. Why should we be concerned about the movement of tectonic plates?
- (A) Earthquakes
 - (B) Tsunami
 - (C) Volcano
 - (D) All of the above
19. In 2004, how many people died from a Tsunami that took place in the Indian Ocean?
- (A) 300
 - (B) 3 000
 - (C) 30 000
 - (D) 300 000
20. What are some benefits associated plate tectonics?
- (A) Formation of minerals (gold, copper..etc)
 - (B) Oil
 - (C) Salt deposits
 - (D) All of the above

PART B: LONG ANSWER

Instructions: Write your answer in the space provided

1. 1. An examination of the map of 1482 reveals significant differences in the way that people viewed the Earth at that time. When compared with the map of 1482, what evidence would Wegener see in the Mercator's map of 1587 that would support his Theory of Continental Drift?

2. What was the missing piece of the puzzle that Wegener needed to support his theory?

3. Does a new discovery always change the way we “see the big picture”? Why/why not?

4. Newfoundland is approximately 4000 km from Africa. If the Earth’s crust is moving at a rate of 3 cm per year how long ago would we have been joined together? Do you think that this is possible? Explain your answer.

5. What is a “convection current”? How do convection currents cause crustal plates to move?

6. What are the three pieces of evidence that supports Wegener’s Theory of Continental Drift
