

FIRST MASTERY TEST IN SCIENCE 10 (Set A)

DO NOT write anything in the questionnaire. Write the letter of your answers in a sheet of paper

- 1) What does Plate Tectonic Theory explain about the lithosphere of the Earth?
A. It is fragmented into several segments
B. The lithosphere is rotating around the mantle
C. The lithosphere is not rigid and therefore flows like a fluid
D. It is one whole integrated system that floats on top of the mantle
- 2) How many MAJOR tectonic plates are there in the Earth's lithosphere?
A. eight B. nine C. seven D. six
- 3) Which of the following are sub-components of the mantle?
I. Asthenosphere II. Lower Mantle (Mesosphere)
III. Outermost rigid mantle layer
A. I and II B. II and III C. I and III D. I, II and III
- 4) What layer of the Earth is made up of the crust and the uppermost mantle?
A. Lithosphere B. Continental crust
C. Mantle D. Tectonic Plate boundary
- 5) Which geologic activities are found near or along tectonic plate boundaries?
I. Volcanism II. Earthquakes III. Mountains
A. I and II only B. II and III only C. I, II and III D. None of them
- 6) What can be traced when volcanoes, earthquake epicenters and mountain ranges are marked on the map?
A. places where archipelagos exist
B. countries with thin oceanic crust
C. boundaries between tectonic plates
D. areas prone to typhoons and storms
- 7) Which of these observations indicates that the Philippines has active volcanoes and a high frequency of earthquakes?
a. The Philippines is near a big body of water.
b. The country is far from a tectonic plate boundary.
c. The country is near the boundary of two tectonic plates.
d. The Philippines is located at the center of a tectonic plate.
- 8) What type of a tectonic plate is the Scotia plate?
a. major plate B. minor plate C. microplate D. it is not a plate
- 9) What property is referred to as the ability of partially melted solid to flow like a liquid?
a. Plasticity b. Flammability c. Viscosity D. Thickness
- 10) Where can we find the Philippines in reference to the Eurasian plate – Philippine plate boundary?
a. The country is very far away from it
b. The country is very near this boundary
c. The Philippines is above the boundary itself
d. The Philippines is where this boundary ends
- 11) Which major tectonic plate is located directly above the Scotia plate on the map?
A. African plate B. North American plate
C. Eurasian plate D. South American plate
- 12) Which location experiences less earthquakes?
A. countries near tectonic plate boundaries
B. areas sitting on the plate boundaries
C. on the center of a tectonic plate
D. on the edges of tectonic plates
- 13) Australia does not have a single volcano that is active for thousands of years. What could be the reason for this?
A. the size of its landmass
B. its location within the tectonic plate
C. the frequency of earthquakes in the country
D. its lithosphere composition is different from others plate
- 14) The Ring of Fire is an area located at the edges of an ocean. There are a lot of volcanoes and earthquakes in this area. Which tectonic plate do most of these edges belong to?
A. Arabian plate B. African plate
C. Pacific plate D. South American plate
- 15) Which of the following countries is NOT part of the Eurasian plate?
A. Australia B. Indonesia C. Philippines D. Malaysia
16. Predict what geologic features could result out of this plate boundary.

A. Hot spots B. Earthquakes
C. Rift valleys, oceanic ridges
D. Mountains, volcanoes, trenches
17. In a hot spot, Volcano A is on top of the mantle plume, Volcano B is 10 km farther from A while Volcano C is the farthest. What can you infer about the ages of the volcanoes?
A. Volcano B is the oldest B. Volcano B is the youngest
C. Volcano B is younger than C D. Volcano A is older than C

18. Right in the middle of an island, you can find a rift valley. What type of plate boundary exists on that island?
A. Divergent B. Convergent C. Normal fault
D. Transform fault
19. What do you expect to find parallel to a trench?
A. Hot spot B. Rift valley C. Ocean ridge D. Volcanic arc
20. What is the type of plate boundary where two plates move together, causing one of the slabs of lithosphere to descend into the mantle beneath an overriding plate?
A. Transform fault B. Oceanic-oceanic convergent
C. Oceanic-continental convergent
D. Continental-continental convergent
21. What geologic features / events are present in a convergent plate boundary?
A. Hot spots B. Earthquakes
C. Rift valleys, oceanic ridges and earthquakes
D. Mountains, volcanoes, trenches, earthquakes
22. What geologic features / events are present in a divergent plate boundary?
A. Hot spots B. Earthquakes
C. Rift valleys, oceanic ridges and earthquakes
D. Mountains, volcanoes, trenches, earthquakes
23. What geologic features / events are present in a transform fault boundary?
A. Hot spots B. Earthquakes
C. Rift valleys, oceanic ridges and earthquakes
D. Mountains, volcanoes, trenches, earthquakes
24. What is the function of the Earth's core in sustaining convection currents in the mantle?
A. Nothing. The core does not have a part in creating convection currents.
B. It absorbs all the heat generated by the movement of the currents.
C. The core serves as the heat source that initiates convection currents. D. it cools the movement of the convection current to make them stable.
25. The theory of plate tectonics evolved from previous theories and concepts put forward by several scientists before its conception. Which theories and concepts are part of this evolution?
I. continental drift II. convection currents
III. seafloor spreading IV. internal structure of Earth
A. I only B. I and II only C. II and IV only D. I, II, III and IV
26. Who proposed the continental drift theory?
A. Alfred Wegener B. Robert Dietz C. Harry Hess D. Frederick Vine
27. Which theory first proposed that magma from the mantle comes out of the ocean ridges and form new seafloor?
A. continental drift theory B. seafloor spreading theory
C. theory of convection currents D. theory of the internal structure of the Earth
28. Why are there convection currents in the mantle? There are convection currents in the mantle because _____.
A. hotter materials at the deeper mantle float up while cooler materials sink down
B. cooler materials at the deeper mantle float up while hotter materials sink down
C. the rotation of the earth around its axis disturbs the magma in the layer
D. moving lithospheric plates drag the magma below it to move
29. What was the one weakness of the theory of continental drift?
A. It did not explain why the continents move.
B. The theory was not supported by evidences.
C. Majority of the presented evidence were fabrications.
D. The scientist who proposed it was not popular enough
30. Magma that come out of an oceanic ridge help widen the oceans. Why is this so? When magma comes out of the ocean ridge, it _____.
A. pushes the old crust upwards increasing the thickness of the crust
B. melts the old crust creating a heat source which boils away the ocean water
C. melts the old crust creating a trench which causes the ocean to increase its water capacity
D. pushes either side of ridge away from the ridge pushing the ocean floor apart while creating new crustal material
31. Which of the following is NOT a compositional layer of the Earth?
A. Asthenosphere B. Core C. Crust D. Mantle

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Lei Huang



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