

GEOLOGY

10113

EXAMPLE THIRD EXAM QUESTIONS

1. AS THE DENSITY OF A MATERIAL DECREASES, THE VELOCITY OF P WAVES?

a. Increases

b. Decreases

c. Remains the same

d. Drops to zero

**2. THE BOUNDARY BETWEEN THE INNER AND OUTER
CORES WAS FOUND BY _____?**

- a. Galagnov
- b. Lehman
- c. Gutenberg
- d. Mohorovicic

3. IN GENERAL, P WAVES THAT PASS THROUGH THE MANTLE....

a.Speed up

b.Slow down

c.Remain the same

d.Can't tell

4. AS WAVES OF OSCILLATION REACH DEPTHS THAT ARE LESS THAN $\frac{1}{2}$ THEIR WAVE LENGTH THEY...

a.Speed up

b.Slow down

c.Start to collapse

d.Become deformed

e.b and d

**5. AS WAVES APPROACH A SHORELINE _____
CAUSES THEM TO BECOME PARALLEL TO THE SHORE.**

a.induction

b.reflection

c.refraction

d.longshore current

6. _____ ARE USUALLY BUILT IN PAIRS TO DEVELOP AND MAINTAIN HARBORS AND EXTEND OUT INTO THE OCEAN OR LAKE.

a.jetties

b.breakwaters

c.seawalls

d.groins

7. WHICH OF THE FOLLOWING IS OUT OF PLACE?

a. anticline

b. syncline

c. thrust fault

d. reverse fault

e. normal fault

8. WHAT STRUCTURE IS INDICATED BY THE MAP SYMBOLS BELOW?

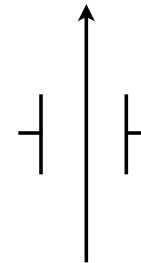
a. horizontal anticline

b. plunging anticline

c. horizontal syncline

d. plunging syncline

e. monocline



9. IN A NORMAL FAULT THE _____ WALL IS ABOVE YOUR HEAD.

a.foot wall

b.hanging wall

c.sag wall

d.thrust wall

10. ON A SEISMOGRAPH THE LAST WAVES TO APPEAR AT A STATION ARE _____.

a. surface waves

b. S waves

c. P waves

d. Q waves

11. TO PRECISELY LOCATE AN EARTHQUAKE ON THE SURFACE OF THE EARTH _____ SEISMOGRAPH STATIONS ARE NEEDED.

a.1

b.2

c.3

d.4

e.can't tell

12. ALFRED WEGENER PROPOSED....

- a. polar wandering
- b. plate tectonics
- c. continental drift
- d. sea-floor spreading

13. WHICH LINE OF EVIDENCE BELOW WAS NOT USED TO SUPPORT CONTINENTAL DRIFT?

a. fit of the continents

b. distribution of fossils

c. similar rock types and structures

d. magnetic sea-floor stripes

e. paleoclimatic evidence

14. THE DIP OF THE MAGNETIC FIELD INTO THE EARTH IS CALLED THE...

- a. inclination
- b. declination
- c. competence
- d. magnetization

15. VOLCANIC ISLAND ARCS ARE ASSOCIATED WITH...

- a. strike-slip boundaries
- b. continent-continent collisions
- c. ocean-continent collisions
- d. ocean-ocean collisions
- e. divergent boundaries

16. AT A TRIPLE JUNCTION....

- a.the crust sinks and a structural basin is formed.
- b.three fractures form that are 100° apart.
- c.two fractures join to form a narrow new ocean and while the 3rd one 'fails'.

17. TRANSFORM FAULTS ARE FOUND IN ASSOCIATION WITH....

- a.continent-continent collision boundaries
- b.ocean-continent collision boundaries
- c.ocean-ocean collision boundaries
- d.divergent boundaries

18. THE HAWAIIAN ISLANDS ARE AN EXAMPLE OF A...

a.volcanic island arc

b.collisional island arc

c.backarc basin

d.hot spot

e.mantle hernia

19. ACTIVE CONTINENTAL MARGINS HAVE.....

- a.wide continental shelves
- b.narrow continental shelves
- c.normal faults
- d.extinct mountain chains

**20. THE CASCADE MOUNTAIN RANGE IN OREGON,
WASHINGTON AND NORTHERN CALIFORNIA IS A..**

a.folded mountain chain

b.block fault chain

c.volcanic island arc

d.volcanic arc

ANSWERS

- 1-b
- 2-b
- 3-a
- 4-e
- 5-c
- 6-a
- 7-e
- 8-b
- 9-b
- 10-a
- 11-c
- 12-c
- 13-d
- 14-a
- 15-d
- 16-c
- 17-d
- 18-d
- 19-a
- 20-d