

# 1<sup>st</sup> Semester Exam YSBAT 2022-2023

## Ch 1

1. Astronomy
2. What are the four main earth systems?
3. Meteorology
4. What are the layers of the Earth
5. Oceanography
6. Hypothesis
7. Hydrosphere
8. Independent variable
9. Dependent variable
10. Describe ways in which Earth's biosphere and atmosphere interact.
11. Be sure you know the basic units and what they measure. Hint: page 6 of notes.
12. Describe the scientific method
13. What is the percentage of CO<sub>2</sub> in Earth's atmosphere?
14. What percent of the Earth's water is salty?
15. What percent of the Earth's water is fresh?
16. What do geochemist study?
17. What is the composition, in percent, of the gases that surrounds the Earth?

18. What is the formula for density?
19. What is the difference between mass and weight?

### Ch 3

20. Define solid
21. Define liquid
22. Define gas
23. What does the +2 represent in:  $Mg^{+2}$
24. What are the most abundant elements in the earth's crust?
25. What are the next 6 most abundant elements the earth's crust?
26. Define condensation
27. Define an acid in terms of pH.
28. How many Hydrogens and Oxygens?  $2H_2+2O$
29. How many Hydrogens and Oxygens?  $2H_2O$
30. What is important about the electrons in the outer orbit

Oxygen 8 O 15.999	Fluorine 9 F 18.998	Neon 10 Ne 20.180
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31. For Neon: Proton# \_\_\_\_\_ Electron # \_\_\_\_\_ Neutron#

Atomic # \_\_\_\_\_ Atomic Mass# \_\_\_\_\_

32. Define Ionic bond
33. Define acids in terms of ( $H^+$ )

## **Ch 4**

- 34. Why does magma want to rise to the surface?
- 35. What conditions create aphanitic texture?
- 36. What conditions create phaneritic texture?
- 37. What does saturation mean?
- 38. Define cleavage
- 39. What minerals fizz in acid?
- 40. Define mineral.
- 41. What are silicates?
- 42. Define specific gravity.

## **Ch 5**

- 43. How are magmas classified?
- 44. How are Igneous rocks classified?
- 45. Define pegmatites
- 46. How does water change the melting point of rock?
- 47. What does the term crystallize mean?

## **Ch 7.1 & 6**

- 48. Define oxidation
- 49. Define frost wedging
- 50. Define weathering

51. What does surface area have to do with the rate of weathering?
52. How does gravity assist in erosion and transporation?
53. Define exfoliation
54. What rock/s would you NOT want to use for building g materials?
55. What are some resources that can be found in sedimentary rocks?
56. What does the term “clast” mean?
57. Define regional metamorphism
58. Define contact metamorphism
59. Define hydrothermal metamorphism
60. Define nonfoliated
61. Define foliated
62. Define breccia
63. Define sorted
64. Define graded bedding
65. Limestone becomes which metamorphic rock?
66. Sandstone becomes which metamorphic rock?