TOPIC LIST FOR QUARTER 2 FINAL/MIDTERM EXAM—1/20/2016

Exam covers Chapters 1-5 in the workbook.

Topics include:

Scientific notation, percent deviation

Graph analysis (direct/inverse graphs, constant & variable rate of change)

Density

Earth' shape

Polaris Rule

Earth's structural spheres: lithosphere, hydrosphere, atmosphere

Longitude, Latitude and Time Zones

Fields: drawing isolines, reading and interpreting contour maps, profiles and calculating gradient

Mineral properties and identification

Rock Types: igneous, sedimentary, metamorphic—their properties and identification; rock cycle

Earthquakes: seismographs, seismograms, P and S wave characteristics, P & S wave travel time, Finding epicenter distance, identifying epicenters, finding origin time, shadow zones

Earth's Layers: which are solid? Which liquid? Properties of the layers

Theory of Continental Drift: evidence

Plate Tectonics: structures formed by diverging, converging and transform plates; where most earthquake and volcanoes occur; hot spots; magnetic striping; age of rock at mid-ocean ridges; convection cells in the asthenosphere

Weathering: physical and chemical; climates each occur in

Erosion: by running water, wind, waves, glaciers—structural evidence

Deposition: by running water, wind, waves, glaciers—landforms created by these agents

Relationship between stream velocity and particle-size transport

Horizontal and vertical sorting

Soil development

Landscapes: plains, plateaus, mountains, stream drainage patterns; differences between humid and Arid landscapes

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ESRT GRAPHS/TABLES/CHARTS YOU NEED TO KNOW AND UNDERSTAND:

Equations, p. 1

Average Chemical Compostion of Earth's Crust, Hydrosphere, Troposphere, p. 1

NYS maps on pp. 2-3

Tectonic Plates on p. 5

All charts on pp. 6-7

Inferred Properties of Earth's Interior, p. 10

Earthquake P & S Waver Travel Time, p. 11

Temperature, p. 13

Selected Properties of Earth's Atmosphere, p. 14

Properties of Common Minerals, p. 16