As usual, the first recommendation is to review the vocabulary, as well as the end-of-chapter summaries.

Please review the following subjects:

- Physical & Chemical weathering
- Heat-flow and Plate tectonics
- Focus (hypocenter) and Epicenter
- Unconformities definition and types
- Relative dating and igneous intrusions
- Reservoirs of the Hydrologic cycle
- Water table
- Features of karst topography
- Dikes, sills and batholiths
- Mafic vs felsic magma/lava
- Fast vs slow mass movement
- Slope stability safety factor
- Turbidity currents
- Foliation in metamorphic rocks
- Polymorphs
- Expandable clays
- Structure of 1:1 & 2:1 clays
- Meanders, flood plain & stream age
- Rejuvenation in streams
- Groundwater and land subsidence
- Coulomb-Mohr envelopes
- Bowen’s reaction series and stability of minerals
- Products of weather in tropical regions

Permeability in glacial deposits
Liquefaction and hydrocompaction
Climate and soil formation
Ocean floor bathymetry
Isostatic equilibrium & mountain roots
Silicate mineral forms
Longshore currents and rip currents
Valley glacier erosion
Porphyritic texture
Hydraulic conductivity in sand and clay
Saltwater intrusion & groundwater
Slope stabilization
Drainage patterns
Fetch and wind-driven waves
Braided vs meandering streams
Common mineral cements in sedimentary rocks
Elastic, plastic (ductile) & brittle deformation
Anticlines and Synclines
Evidence supporting plate tectonics
Cone of depression
Coastal erosion prevention structures
Earthquake damage with tall structures, & 2-story brick
Earthquake damage on bedrock vs fill (sediment)

The following lists the page numbers to locate the correct answers to your homework assignments. Review of the assignments is also a good way to prepare for this exam.

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