Assignment 9

The due date for submitting this assignment has passed. Appear our record if you have not submitted this assignment.

1. Sorting is performed by sorting according to:
   - The melting point of the major constituent, increases the final strength
   - The melting point of the major constituent, decreases the final strength
   - The melting point of the major constituent, increases the final strength
   - The melting point of the major constituent, decreases the final strength
   - The fraction of the major constituent, decreases the final strength
   [1 point]

2. In a breaker set, the term interface is referring to:
   - Dividing the plane between two different phases
   - Dividing the plane between two different joint boundaries
   - Adding the plane between two different phases
   - Adding the plane between the same phase
   [1 point]

3. Sorting combines the sand grains into:
   - Medium to fine sands
   - Medium to very fine sands
   - Medium to very coarse sands
   - Medium to coarse sands
   - All the above
   [1 point]

4. The particle bond together during sorting by:
   - Increasing the surface energy
   - Decreasing the surface energy
   - Heat transfer
   - Volume energy
   - Surface energy
   [1 point]

5. Higher sorting stress is processed by:
   - 10 mm particles
   - 5 mm particles
   - 3-0 mm particles
   - 7-10 mm particles
   - All the above
   [1 point]

6. In which of the following stages of weathering are the particles involved in sorting?
   - Contact transformation (weathering)
   - Heat, cold, et al.
   - Pore pressure, infiltration
   - Porosity change (weathering)
   [1 point]

7. The angle of the contact between two grains is referred as:
   - Contact angle
   - Critical angle
   - Critical angle
   - Strain angle
   - Wedge angle
   [1 point]

8. Briefly, there are four different types of mass transport mechanisms; and diffusion is given by:
   - Transport
   - Brownian transport
   - Diffusion
   - Convection
   - All the above
   [1 point]

9. Select the incorrect statement related to the bulk transport mechanism in sorting:
   - Diffusion moves the micro ions inside to deposit on the pore
   - Bulk transport involves the main on the pore surface to form a surface area
   - Bulk transport involves the main on the pore surface to form a surface area
   - Surface diffusion is element wearing mechanism in bulk transport
   - Surface diffusion is element wearing mechanism in bulk transport
   [1 point]

10. Surface energy, loss during sorting is associated to the:
    - Reduction in surface area
    - Particle loading
    - Diffusion of ions
    - All the above
    [1 point]

11. The major growth in sorting is:
    - Controlled by process
    - Diffusion
    - Plants
    - Water flow
    - Thermo-mechanical
    [1 point]