

# Innovative Teaching Learning Activity

Subject: Concrete Technology

1. According to Bogue's compound composition, C<sub>2</sub>S is responsible for: (1 point)
  - a) Early strength
  - b) Long-term strength
  - c) Controlling setting time
  - d) None of these
  
2. Cement is primarily used as a: (1 point)
  - a) Binding material
  - b) Lubricant
  - c) Waterproofing material
  - d) Fuel
  
3. The initial setting time of Ordinary Portland Cement (OPC) should not be less than: (1 point)
  - a) 10 minutes
  - b) 30 minutes
  - c) 45 minutes
  - d) 1 hour
  
4. The compound responsible for early strength in cement is: (1 point)
  - a) Tricalcium silicate (C<sub>3</sub>S)
  - b) Dicalcium silicate (C<sub>2</sub>S)

- c) Tricalcium aluminate ( $C_3A$ )
- d) Tetracalcium aluminoferrite ( $C_4AF$ )

5. The process of heating raw materials at high temperature in cement manufacturing is called: (1 point)

- Calcination
- Clinkerization
- Hydration
- Fusion

6. Standard consistency of cement is approximately: (1 point)

- a) 10%
- b) 25–35%
- c) 45–55%
- d) 60–75%

7. The main raw materials for manufacturing of cement are: (1 point)

- Lime and clay
- Lime and sand
- Clay and gypsum
- Sand and gypsum

8. The fineness of cement is determined by: (1 point)

- a) Vicat apparatus
- b) Blaine's air permeability apparatus
- c) Le-Chatelier flask
- d) Compression testing machine

9. Which of the following is added during grinding of clinker to control setting time of cement? (1 point)

- Lime
- Gypsum
- Silica
- Alumina

10. The final setting time of cement should not exceed: (1 point)

- a) 30 minutes
- b) 6 hours
- c) 10 hours
- d) 12 hours