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Q] Cement is primarily used as a:

- A) Binding material
- B) Lubricant
- C) waterproofing material
- D) fuel.

Answer: A) Binding material.

Q] The main raw materials for manufacturing of cement are:

- A) Lime and clay
- B) Lime and sand
- C) Clay and gypsum
- D) Sand and gypsum

Answer: A) Lime and clay.

Q] Which of the following is added during grinding of clinker to control setting time of cement?

- A) Lime
- B) Gypsum
- C) Silica
- D) Alumina

Answer: B) Gypsum.



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4. The compound responsible for early strength in Cement is

- A) Tricalcium Silicate ( $C_3S$ )
- B) Dicalcium Silicate ( $C_2S$ )
- C) Tricalcium Aluminate ( $C_3A$ )
- D) Tetracalcium Aluminoferrite ( $C_4AF$ )

Ans: Tricalcium Silicate ( $C_3S$ )

5] The Process of heating raw material at high temperature in Cement manufacturing is called

- A) Calcination
- B) Clinkerization
- C) Hydration
- D) Fusion

Ans: Clinkerization.

6] The final setting time of cement should not exceed

- A) 30 min
- B) 6 hours
- C) 10 hours
- D) 12 hours

Ans: 10 hours.



7) The initial setting time of ordinary Portland cement (OPC) should not be less than:

- A) 10 min.
- B) 30 min
- C) 45 min
- D) 1 hour

Ans: B) 30 min.

8) The fineness of cement is determined by:

- A) Vicat apparatus
- B) Blaine's air permeability apparatus
- C) Le Chatelier flask
- D) Compression testing machine.

Ans: Blaine's air permeability apparatus

9) Standard consistency of cement is approximately:

- A) 10%
- B) 25-30%
- C) 45-55%
- D) 60-75%

10. According to Bogue's Compound composition  
C2S responsible for :

- A) Early Strength
- B) Long-term Strength
- C) Controlling setting time
- D) None of These

Ans : Long-term strength.

