

C - Cement - / Portland cement & PoP

(2)

1. What are constituents of Portland cement?
2. Draw labelled diagram of rotatory kiln used for the manufacture of Portland cement.
3. Give flow chart diagram to show the various steps involved during Portland cement manufacture by rotatory kiln technology.
4. Write reactions involved in formation of clinker, setting and hardening of cement.
5. Why ~~Gypsum~~ Gypsum added in cement.
6. What happens when water added in Gypsum? What product is formed and write applications of product also.

D. Lubricants

1. What are lubricants? Give name of two solid lubricants.
2. Write short notes on (a) flash point (b) fire point (c) cloud point (d) Aniline point (e) pour point.
3. Explain mechanism of fluid film and boundary lubrication.
4. What is viscosity Index? How viscosity Index of a lubricating oil improved?
5. Define Acid number. What do you mean by base value?
6. What ^{are} greases? Mention their some uses.