

## **SECTION-D**

**Note:** Long answer type questions. Attempt any two questions out of three questions. (2x8=16)

- Q.23 Write composition of cement. Explain effect of constituent on properties of cement.

Q.24 Describe the cement manufacture wet process and flow chart.

Q.25 Explain various health and safety measure taken in cement industry.

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3rd Sem / Ceramic

## **Subject : Cement Technology**

Time : 3 Hrs.

M.M. : 60

## **SECTION-A**

**Note:** Multiple choice questions. All questions are compulsory (6x1=6)

- Q.1 Color of ordinary portland cement is -  
a) Blue                              b) Grey  
c) Red                                d) None of these

Q.2 PPC stand for -  
a) Portland pozzolana cement  
b) Portland plaster cement  
c) Portland primary cement  
d) Non e of these

Q.3 Setting times of cement is measured by -  
a) Vicat's apparatus  
b) Le-chatlier's apparatus  
c) Hydrometer  
d) None of these

Q.4 \_\_\_\_\_ kiln is used for cement manufacturing.

- a) Rotary
- b) Tunnel
- c) Hoffman
- d) None of these

Q.5 Gypsum is used for controlling \_\_\_\_\_ cement.

- a) Setting time
- b) Mixing time
- c) Ignition temperature
- d) None of these

Q.6 Which of the following has highest content in OPC-

- a) Lime
- b) Silica
- c) Alumina
- d) None of these

## SECTION-B

**Note:** Objective/ Completion type questions. All questions are compulsory. (6x1=6)

Q.7 Cement is organic material. (T/F)

Q.8 Final setting time of ordinary portland cement is 10 hrs. (T/F)

Q.9  $\text{CaCO}_3$  is formula of \_\_\_\_\_. (cobalt oxide/ Limestone)

Q.10 Marble is calcareous material. (T/F)

Q.11 Fineness of portland cement is performed with sieve 90 micron. (T/F)

Q.12 Soundness of cement is tested by Le-chatelier's apparatus. (T/F)

## SECTION-C

**Note:** Short answer type questions. Attempt any eight questions out of ten questions. (8x4=32)

Q.13 Define portland cement.

Q.14 List of physical properties of cement .

Q.15 List uses of oil well cement .

Q.16 Describe determination of fineness of cement .

Q.17 Write properties of rapid hardening of cement .

Q.18 State the percentage of gypsum used in cement and explain its function.

Q.19 Explain the thermo chemistry of clinker formation.

Q.20 Enlist properties and uses of lime.

Q.21 Write various health and safety measured must be taken in cement industry.

Q.22 Define low heat cement.