

- Q.24 List uses of oil well cement
 Q.25 Describe determination of fineness of cement
 Q.26 Write properties of rapid hardening of cement
 Q.27 Discuss the selection of raw material for cement
 Q.28 State the percentage of gypsum used in cement and explain its function.
 Q.29 Explain the thermo chemistry of clinker formation.
 Q.30 Explain role of gypsum during cement manufacture
 Q.31 Enlist properties and uses of lime.
 Q.32 How plaster of paris is made ? Explain
 Q.33 Write various health and safety measured must be taken in cement industry.
 Q.34 List the uses of gypsum.
 Q.35 Define low heat cement.

SECTION-D

Note: Long answer type questions. Attempt any two questions out of three questions. (2x10=20)

- Q.36 Write composition of cement. Explain effect of constituent on properties of cement.
 Q.37 Describe the cement manufacture process with neat sketch and flow chart.
 Q.38 Explain process of testing water consistency of cement.

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4th Sem. / Ceramic

Subject : Cement Technology

Time : 3 Hrs.

M.M. : 100

SECTION-A

Note: Multiple choice Questions. All questions are compulsory (10x1=10)

- Q.1 Cement is formed by strongly heating a mixture of-
 a) Lime stone and clay b) Graphite and clay
 c) Chalk and Graphite d) None of these
 Q.2 PPC stand for-
 a) Portland pozzolana cement
 b) Portland plaster cement
 c) Portland primary cement
 d) None of these
 Q.3 Setting time of cement is measured by-
 a) Vicat's apparatus
 b) Le-chatlier's apparatus
 c) Hydrometer
 d) None of these

- Q.4 Low heat cement is used in-
- Thick structures
 - Thin structures
 - Submarine structure
 - None of these
- Q.5 Which of the following is not a pozzolanic material-
- Cinder
 - Slag
 - Fly ash
 - None of these
- Q.6 Which of the following has highest content in OPC-
- Lime
 - Silica
 - Alumina
 - None of these
- Q.7 Alumina in excess causes-
- Reduces strength in the content
 - Increase the strength in cement
 - No charge
 - None of these
- Q.8 Which compound give the color to the cement-
- Iron oxide
 - Silica
 - Alumina
 - Lime
- Q.9 The strength of well compacted concrete with good workability depends only on the-
- Water cement ratio
 - cement content
 - Water content
 - None of these
- Q.10 The cement used in water logged area is-
- Portland cement
 - Hydrophobic cement
 - Quick setting cement
 - None of these

SECTION-B

- Note:** Objective type questions. All questions are compulsory (10x1=10)
- Q.11 Cement is organic material. (T/F)
- Q.12 Low heat cement is ideal for use in construction of dam. (T/F)
- Q.13 Final setting time of ordinary Portland cement is 10 hrs. (T/F)
- Q.14 CaCO_3 is formula of _____. (Lime, Limestone)
- Q.15 Marble is calcareous material. (T/F)
- Q.16 Silica is argillaceous material. (T/F)
- Q.17 Fineness of portland cement is performed with sieve 90 micron. (T/F)
- Q.18 Soundness of cement is tested by Le-chatelier's apparatus.
- Q.19 Formula of aluminium oxide is Al_2O_3 . (T/F)
- Q.20 Gypsum in cement industry is used as retarder. (T/F)

SECTION-C

- Note:** Short answer type questions. Attempt any twelve questions out of fifteen questions. (12x5=60)
- Q.21 Define portland cement.
- Q.22 List of physical properties of cement
- Q.23 Define hydraulic cement and its uses.