

- 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 measures 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

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- 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.