

SECTION-D

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

- Q.23 Describe the various factors that affects selection of raw material.
- Q.24 Explain various health safety measures taken in cement industry.
- Q.25 Describe the determination of water consistency test of cement.

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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 Cement is invented by -
a) Joseph Aspdin b) Michael
c) James d) None of these
- Q.2 Final setting time of ordinary Portland cement is-
a) 10 Hrs. b) 20 Hrs
c) 30 Hrs. d) None of these
- Q.3 Initial setting time of cement is measured by -
a) Le-Chatelier's apparatus
b) Vicat's apparatus
c) M.O.R. apparatus
d) None of these

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- Q.4 Which compound give color to cement-
- a) Silicon dioxide
 - b) Iron oxide
 - c) Lime
 - d) None of these
- Q.5 The cement used in water logged area is-
- a) Portland cement
 - b) Hydrophobic cement
 - c) White cement
 - d) None of these
- Q.6 Which cement is most commonly used in under water construction where pumping is involved-
- a) Low heat cement
 - b) Quick setting cement
 - c) Portland hardening cement
 - d) None of these

SECTION-B

Note: Objective/ Completion type questions. All questions are compulsory. $(6 \times 1 = 6)$

- Q.7 Soundness of cement is tested by vicat apparatus. (T/F)
- Q.8 Formula of limestone is CaCO_3 . (T/F)

- Q.9 Silicon dioxide is argillaceous material. (T/F)
- Q.10 Full form of P.O.P is Plaster of Paris. (T/F)
- Q.11 Rotary kiln is used in cement industry. (T/F)
- Q.12 Formula of tricalcium silicate is C_3S . (T/F)

SECTION-C

Note: Short answer type questions. Attempt any eight questions out of ten questions. $(8 \times 4 = 32)$

- Q.13 Define cement.
- Q.14 Describe determination of sieve test of cement.
- Q.15 Define high alumina cement. Write its uses.
- Q.16 List mechanical properties of cement.
- Q.17 Explain hydration of cement.
- Q.18 Write properties of lime.
- Q.19 Define hydrophobic cement.
- Q.20 Write properties of rapid hardening cement.
- Q.21 Define slag cement.
- Q.22 Define Portland cement. Write its type.