

- Q.31 Write properties of rapid hardening cement.
 - Q.32 Define slag cement.
 - Q.33 List use of oil well cement.
 - Q.34 Define Portland cement. Write its types
 - Q.35 List advantage of wet process over dry process.

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**4th Sem, Branch : Ceramic Engg.
Subject : Cement Technology**

Time : 3 Hrs.

M.M. : 100

SECTION-D

Note: Long Answer type question. Attempt any two questions. (2x10=20)

- Q.36 Describe the various factors that affects selection of raw material.
 - Q.37 Explain various health and safety measures taken in cement industry.
 - Q.38 Describe the determination of water consistency test of cement.

SECTION-A

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

- Q.1 Ordinary Portland cement is _____ material.
a) Organic b) Inorganic
c) Neutral 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

Q.4 Which compound give color to cement
a) Silicon dioxide b) Iron oxide
c) Lime d) None of these

Q.5 Cement is invented by-
a) James Gibson b) Joseph Aspdin
c) Michael d) None of these

- Q.6 Which cement is most commonly used in under water construction where pumping is involved.
- Low heat cement
 - Quick setting cement
 - Portland hardening cement
 - None of these
- Q.7 After storage, strength of cement is-
- Increase
 - Decrease
 - Remain same
 - None of these
- Q.8 Which of the following is not a pozzolanic materials
- Slag
 - Cender
 - Fly ash
 - None of these
- Q.9 The cement used in water logged area is -
- Portland cement
 - Hydrophobic cement
 - Rapid hardening cement
 - None of these
- Q.10 What test is performed to determine water cement ratio
- Setting time
 - Consistency
 - Soundness
 - None of these

SECTION-B

Note : Objective type questions. All questions are compulsory. $(10 \times 1 = 10)$

- Q.11 Reinforcement is often include in concrete. (T/F)

- Q.12 Soundness of cement is tested by vicat apparatus. (T/F)
- Q.13 Low heat cement is ideal in use in construction of dam. (T/F)
- Q.14 Formula of limestone is CaCO_3 . (T/F)
- Q.15 Plaster of Paris is used in making mould. (T/F)
- Q.16 Silicon dioxide is argilaceous material. (T/F)
- Q.17 Iron oxide provide the hardness and strength to the cement. (T/F)
- Q.18 Full form of P.O.P. is Portland of Paris. (T/F)
- Q.19 Rotary kiln is used in cement industry. (T/F)
- Q.20 Formula of tricalcium silicate is C_3S . (T/F)

SECTION-C

Note : Short answer type questions. Attempt any twelve questions out of fifteen questions. $(12 \times 5 = 60)$

- Q.21 Define clinker.
- Q.22 Describe determination of sieve test of cement.
- Q.23 Write properties of rapid hardening cement.
- Q.24 List mechanical properties of cement.
- Q.25 Explain setting and hardening time of Portland cement.
- Q.26 Explain hydration of cement.
- Q.27 Write properties of lime.
- Q.28 List uses of plaster of paris.
- Q.29 Define hydrophobic cement.
- Q.30 Describe determination of fineness of cement.