

- 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.

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.

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Roll No.....

4th Sem, **Branch** : Ceramic Engg.

Subject : Cement Technology

Time : 3 Hrs.

M.M. : 100

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. (10x1=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 argillaceous 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. (12x5=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.