

- Q.23 Explain water / Cement ratio.
 Q.24 Explain any four types of cement with its use.
 Q.25 Write names of physical properties of cement.
 Q.26 Write raw materials used for manufacturing of cement.
 Q.27 Write the uses of plaster of paris.
 Q.28 Write the process of checking the soundness of cement in lab.
 Q.29 Write properties and uses of Quick setting cement.
 Q.30 Explain cement manufacturing process.
 Q.31 Explain calcination process of limestone.
 Q.32 Write the uses and property oil well cement.
 Q.33 Describe Le-Chadelier's Apparatus.
 Q.34 Explain mechanical properties of Portland cement.
 Q.35 Explain determination of final setting time?

SECTION-D

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

- Q.36 Explain various health and safety measures taken in cement industry.
 Q.37 Explain the procedure of Soundness test of cement.
 Q.38 Explain the dry process of cement manufacturing with flow diagram.

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Sub.: Cement Technology

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SECTION-A

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

- Q.1 Cement was invented in
 a) 1902 b) 1804
 c) 1916 d) 1824
 Q.2 The proportional Iron oxide in white cement clinker should be:
 a) 1% b) 4%
 c) Less than 10% d) More than 4%
 Q.3 Addition of gypsum during final grinding of cement clinkers:
 a) Retards the rate of setting
 b) Accelerates the rate of setting
 c) Does not alter the setting time
 d) Decreases the cost of cement
 Q.4 The main component of lime stone is:
 a) Na₂O b) CaO
 c) FeO d) MgO

- Q.5 In cement production Gypsum is added in :
- a) Raw mill
 - b) Kiln
 - c) Crusher
 - d) Cement Mill
- Q.6 Water cement ratio test is done to check?
- a) Workability
 - b) Strength
 - c) Fineness
 - b) Coarse
- Q.7 Calcareous materials contains
- a) Alumina
 - b) Magnesium
 - c) Limestone
 - d) All of these
- Q.8 Vicat needle is used in determination of
- a) Initial setting time
 - b) Final setting time
 - c) Consistency
 - d) All of these
- Q.9 PPC Means?
- a) Perfect Portland Cement
 - b) Portland Produced Cement
 - c) Portland Pozzolana Cement
 - d) Productive Portland Cement
- Q.10 Soundness of cement is tested by
- a) Vicat apparatus
 - b) Le Chatalier apparatus
 - c) Soundness meter
 - d) Duff Abrams apparatus

SECTION-B

- Note:** Objective type questions. All questions are compulsory. (10x1=10)
- Q.11 Cement is made of _____ material. (Inorganic/Organic)
- Q.12 Blast furnace slag cement is made from _____. (Furnace slag/Tank furnace)
- Q.13 Initial setting time of cement should not be less than _____. (30 min/1hr)
- Q.14 Cobalt is used for getting _____ colour in cement (White/Blue)
- Q.15 A good quality cement should have higher percentage of _____. (Lime/Silica)
- Q.16 The cementing property of cement is due to _____. (Lima/Iron oxide)
- Q.17 Colour of lime stone is _____.
- Q.18 The temperature range in a cement kiln is _____. (500-1000* C/ 1000-1200* C)
- Q.19 _____ % gypsum is added in cement. (3/5)
- Q.20 Colour of portlant cement is grey. (True/False)

SECTION-C

- Note:** Short answer type Questions. Attempt any twelve questions out of fifteen Questions. (12x5=60)
- Q.21 What you meant by workability?
- Q.22 What is admixture? Enlist at least three admixtures with their use.