

- Q.24 Explain various health and safety measures taken in cement industry.
- Q.25 Describe the various factors that affects selection of raw materials.

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**3rd Sem./ Ceramic  
Sub : Cement Technology**

Time : 3 Hrs.

M.M. : 60

**SECTION-A**

**Note:** Multiple choice questions. All questions are compulsory (6x1=6)

- Q.1 Portland cement was invented by
- a) Joseph Aspdin      b) Albert Einstein  
c) Ferredy Nissan      d) None of these
- Q.3 Percentage of silica in Portland cement is \_\_\_\_\_%.
- a) 17-25%      b) 25-50%  
c) 5-10%      d) 100%
- Q.4 Gypsum is used for controlling \_\_\_\_\_ Cement.
- a) Setting time      b) Mixing time  
c) Softening temperature      d) Ignition temperature
- Q.4 Water cement ratio test is done to check?
- a) Workability      b) Strength  
c) Fineness      d) Coarse

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Q.5 Soundness of cement is tested by

- a) Vicat apparatus
- b) Le Chatalier apparatus
- c) Soundness meter
- d) DuffAbrams apparatus

Q.6 \_\_\_\_\_ kiln is used for cement manufacturing.

- a) Rotary                      b) Batch
- c) Tunnel                      d) Tank

### SECTION-B

**Note:** Objective/ Completion type questions. All questions are compulsory. (6x1=6)

Q.7 Colour of Portland cement is \_\_\_\_\_. (Grey/black)

Q.8 Gypsum is used for control setting time of cement. (True/False)

Q.9 The temperature range in a cement kiln is \_\_\_\_\_? (500-1000 \*C/ 1000-1200 \*C).

Q.10 Clinker is grinded with \_\_\_\_\_. (Gypsum / Plaster of paris)

Q.11 The final setting time of ordinary Portland cement is 6 Hrs. (True/ False)

Q.12 Water is used in wet process of cement manufacturing. (True/ False)

### SECTION-C

**Note:** Short answer type questions. Attempt any eight questions out of ten questions. (8x4=32)

Q.13 Write raw materials used for manufacturing of cement.

Q.14 Write the uses and property oil well cement.

Q.15 Explain chemical composition of port land cement.

Q.16 What are the physical properties of cement?

Q.17 Write the properties and uses of lime.

Q.18 Describe Le-Chatelier's Apparatus.

Q.19 What measures to be taken for environmental pollution.

Q.20 Explain mechanical properties of Portland cement.

Q.21 List advantages of wet process.

Q.22 Explain why gypsum is added in cement?

### SECTION-D

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

Q.23 Explain the dry process of cement manufacturing with flow diagram.