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## Time : 3Hrs. M.M. : 100

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

- ## SECTION-D

Q.36 Explain how initial and final setting time of cement is found?

Q.37 Explain the process of checking the soundness of cement.

Q.38 Write the wet process for the manufacture of cement with neat diagram.

- Q.5 Rapid hardening cement attains maximum strength within
- a) 12-24 hours                      b) 24-72 hours  
c) 3-5 days                          d) 7 days
- Q.6 Low heat cement is used in massive concrete structures like
- a) dam                                  b) house  
c) road                                d) all of these
- Q.7 Cobalt is used for getting \_\_\_\_\_ in cement.
- a) red                                  b) blue  
c) green                              d) white
- Q.8 The expansion in portland cement can be tested by?
- a) fineness test  
b) soundness test  
c) setting time  
d) water consistency test
- Q.9 The standard consistency test is done by?
- a) Blaine apparatus  
b) le-chatelier's apparatus  
c) vane apparatus  
d) Vicat apparatus
- Q.10 Gypsum used in cement manufacturing acts as?
- a) accelerator                      b) air-entraining agent  
c) plasticizer                        d) retarder

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## SECTION-B

**Note:** Objective type questions. All questions are compulsory. (10x1=10)

- Q.11 Percentage of silica in Portland cement is \_\_\_\_\_%.  
(17-25% / 100%)
- Q.12 \_\_\_\_\_ Kiln is used for cement manufacturing.  
(Rotary kiln / Tunnel)
- Q.13 CaO is also called as limestone. (True/False)
- Q.14 Gypsum is used to control the initial setting time of cement. (True/False)
- Q.15 Rapid hardening cement attains maximum strength in \_\_\_\_\_. (3-5 days / 7 days)
- Q.16 Formula of Gypsum is \_\_\_\_\_. ( $\text{CaSO}_4 \cdot 2\text{H}_2\text{O}$  /  $\text{CaSO}_4$ )
- Q.17 Final setting time of cement should not be more than \_\_\_\_\_. (1hr / 10hrs)
- Q.18 Water is used in wet process of cement manufacturing. (True/False)
- Q.19 \_\_\_\_\_ fuel is used in rotary kiln in cement plants. (Coal / Petrol)
- Q.20 Gypsum is used to make plaster of paris. (True/False)

## SECTION-C

**Note:** Short answer type questions. Attempt any twelve questions out of fifteen questions. (12x5=60)

- Q.21 What Raw materials are used for the manufacture of cement?
- Q.22 What is the role of gypsum in cement production?

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