



**SNS COLLEGE OF TECHNOLOGY  
DEPARTMENT OF CIVIL ENGINEERING  
ACADEMIC YEAR 2022-2023**



**SUBJECT NAME: CONCRETE TECHNOLOGY**

**SUBJECT CODE : 19CEE304**

**CEMENT AND ADMIXTURES**

**UNIT-1 QUESTIONS**

**PART-A**

1. Define Abram's water cement law.
2. What is false setting cement? Write reasons for it.
3. Mention the test adopted to tests the properties of cement in laboratories.
4. What are the qualities of water mixing with cement?
5. What is meant by pozzolanic action?
6. List any two air entering admixtures.
7. Write the classification of fly ash.
8. Write the advantages of GGBS.
9. Define plasticizer and super plasticizer.
10. Mention the few mineral admixtures.
11. What is the function of gypsum used in cement?
12. What is sulphate attack?
13. Define cement.
14. What is meant by grade of cement?
15. What are all Bogues components?

**PART-B**

1. Explain details about various types of cements.
2. Describe in detail about the importance of the quality of water used for concreting.
3. Explain details about the plasticizers and super plasticizers.
4. Explain details about supplementary cementitious materials. (Refer pdf notes: silica fume, fly ash, metakaolin, ground granulated blast furnace slag)..
5. Explain details about consistency, initial and final setting time of cement.



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**FRESH AND HARDENED PROPERTIES OF CONCRETE**

**UNIT- 2 QUESTIONS**

PART-A

1. List out the usage of slump values.
2. Define compaction factor.
3. Mention the values of different types of slumps.
4. Define workability.
5. List out the factors affecting workability of concrete.
6. Define Segregation and bleeding of concrete.
7. What are the steps adopted to control bleeding of concrete?
8. List out the factors affecting the results of strength test.

PART-B

1. Define workability? Explain the factors affecting workability?
2. Explain the test for measurement of workability in concrete with neat sketch.
3. Explain the properties of fresh and hardened concrete.