

**SAMANTA CHANDRASEKHAR INSTITUTE OF TECHNOLOGY AND MANAGEMENT,  
SEMILIGUDA**

**DIPLOMA (6<sup>TH</sup> SEMESTER INTERNAL ASSESSMENT 1)**

**Subject: Concrete Technology**

**Branch: Civil Engineering**

**Time: 1 hr 30 minutes**

**Total Marks: 20**

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*(Figures to the right hand side indicates marks)*

**PART-A**

**Q.1. Answer ALL questions**

**(2x5=10marks)**

- a) What do you mean by grade of concrete?
- b) What is efflorescence?
- c) What is the effect of water cement ratio on strength of concrete?
- d) What do you mean by Fresh concrete?
- e) Write down the name of four tests used to measure workability of fresh concrete?

**PART-B**

**Q.2. Answer ANY TWO questions**

**(5x2=10marks)**

- a) Differentiate between Nominal mix concrete & Design mix concrete?
- b) What down the functions of admixture ?
- c) Write short note on Slump test?

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**2<sup>nd</sup> INTERNAL EXAMINATION**

**Diploma 6<sup>th</sup> Semester (Civil)**

**Subject: Concrete Technology**

**Time: 1 hr 30 minutes**

**Total Marks: 20**

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*(Figures to the right-hand side indicates marks)*

**PART-A**

**Q1. Answer any five questions:**

**(2x5=10marks)**

- (a) Define shrinkage of concrete?
- (b) Why the evaluation of crack is necessary in concrete?
- (c) Define ~~fineness~~ modulus of aggregate?
- (d) Write down the different phases for production of concrete?
- (e) How does a 53 grade of concrete differs from a 43 grade of concrete?

**PART-B**

**Q2. Answer any two questions:**

**(5x2=10marks)**

- (a) Write down the uses and classification of concrete admixtures?
- (b) How cracks developed in concrete can be repaired? Discuss briefly?
- (c) Write down the advantages of quality control of concrete?