



**REGISTRATION NUMBER**

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## **SRINIX COLLEGE OF ENGINEERING**

**2<sup>ND</sup> INTERNAL EXAMINATION-2021-22**

**Subject-BCE**

**Semester-1<sup>st</sup>**

**Branch- SEC-B**

**Full Mark-100**

**Time-2.30Hrs**

**ANSWER all QUESTIONS (PART-A)**

**[2X10]**

- 1) (a) What is the standard size of bricks recommended by BIS?
- (b) After how many days the strength of cement is tested and graded.
- (c) What is a toe in a dam?
- (d) After how many days the strength of the cement is tested and graded according to the result?
- (e) How many types of brick masonry is available?
- (f) How many types of stone masonry is available?
- (g) What are the different type of shallow foundation?
- (h) Write down the importance of Airport engineering.
- (i) What are the necessity of Irrigation?
- (j) What are the basics content of cement?

**ANSWER ANY Eight QUESTIONS (PART-B)**

**[6×8=48]**

- 1) Write a note on total station?
- 2) Explain the manufacturing process concrete.
- 3) Draw a neat sketch of a section of a building showing various components?
- 4) What are there requirements of stone masonry and brick masonry?
- 5) Explain the textural classifications of soil?
- 6) List out different hydraulic structure and their use?
- 7) Explain geological soil classifications.
- 8) What are the planning and design aspects of transportation engineering?
- 9) Briefly explain features of Metric chain?
- 10) How porosity and void ratio are related explain by equation?

**ANSWER ANY TWO QUESTIONS (PART-C)****[16×2=32]**

- 1) Describe the procedure of concrete manufacturing?
- 2) Draw neat sketch of compass used in survey and explain each segment?
- 3) The following bearings were taken in running a compass traverse.

LINE	FB	BB
AB	124° 30'	304° 30'
BC	68° 15'	246° 00'
CD	310 °30'	135 15'
DA	200° 15'	1°7 45'

At what stations do you suspect local attractions? Find the correct bearings of the lines and also compute the included angles.