



REGISTRATION NUMBER

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SRINIX COLLEGE OF ENGINEERING

1ST INTERNAL EXAMINATION-2017-18

Subject-**ATE**

Semester-**6TH**

Branch-**CIVIL**

Full Mark-**30**

Time-**1.30Hrs**

ANSWER ALL THE QUESTIONS (PART-A)

[2X5]

1. First train was run in India in april 1853 between
(a) Bombay –Thane (b) Delhi – Meerut (c) Madras – Pondichery (d) calcutta-Howrah
2. Indian railway system is divided into
(a)Six zones (b) Nine zone (c) Three zone (d) Eight zone
3. The rail is designed by its ...
(a) weight (b) length (c) weight/unit length (d) cross section
4. Generally the rail sections used in India are_____.
5. The rails are made of _____.

ANSWER ALL THE QUESTIONS (PART-B)

[2X5]

1. What do you mean by gauge ?
2. What do you mean by coning of wheels ?
3. Why sleepers are provided ?
4. What are effects of creep ?
5. What is sleeper density ?

ANSWER ANY ONE QUESTION (PART-C)

[10X1]

- 1) What do you mean by permanent way ? What are the requirements of an ideal permanent way?
- 2) What would be the gradient for a B.G track when the grade resistance together with curve resistance due to a curve of 3degree shall be equal to the resistance due to a ruling gradient 1 in 200 ?
- 3) What is creep ? Discuss the theories propounded to explain probable causes of creep ?

