

S.B. Roll No.....

RAILWAY BRIDGES AND TUNNELS
5TH Exam/Civil/2516/May'17

Duration:-3 Hrs.

M. Marks: 75

SECTION - A

Q1. Fill in the blanks.

10x1.5=15

- i. First rail was run in India between Mumbai and Thane on.....
- ii. Flat footed rails are To bull headed rails.
- iii. Standard length for broad gauge track in India is
- iv. Creep is the movement of rails
- v. CI sleepers are to steel sleepers
- vi. Cost of laying railway line should be
- vii. Is the combination of rails, sleepers, ballast and formation.
- viii. Is the common material for manufacturing of rails.
- ix. Timber sleepers are durable than concrete sleepers.
- x. Basic object of signaling is to the movement of trains.

SECTION - B

Q2. Answer the following (Attempt any five Questions.)

5x6=30

- a. What is a gauge? Explain various types of gauges.
- b. What is creep? Explain any two theories of creeps.
- c. What is a rail? What are its requirements? Explain its types.
- d. List down the functions of ballast.
- e. What do you mean by crossings?
- f. What are the duties of PWI?
- g. What do you understand by coning of wheels?

SECTION - C

Q3. Answer in Detail (Attempt any three Questions.)

10x3=30

- i. What is a sleeper? What are the requirements of an ideal sleeper? What are its advantages and dis-advantages?
- ii. What is wear of rails? How do you classify wear? Causes and suitable measures to reduce wear of rails.
- iii. Classify signals according to location, function and brief about special signals.
- iv. What are the components of bridge? Explain with the help of diagram.
- v. Explain the factors which affect selection site of a bridge.