

## MID SEMESTER EXAMINATION

**Branch : CIVIL**

**Subject Name: RAILWAY,BRIDGE AND TUNNEL  
ENGINEERING**

**Max. Marks : 30**

3) Indicate **clearly**, the options you attempt along with its respective question number.

(b) Describe with sketches procedure of fixing alignment in short and long tunnel. [5]

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**B.E. 5<sup>TH</sup> Semester**

**MID SEMESTER EXAMINATION**

**Date/Day : 28/08/2014, Thursday**

**Branch : CIVIL**

**Sub Code : CV 505**

**Subject Name: RAILWAY, BRIDGE AND TUNNEL  
ENGINEERING**

**Time : 08:30 AM to 10:00 AM**

**Max. Marks : 30**

**Instructions:** 1) All questions are **compulsory**

2) Figures to the **right** indicate full marks.

3) Indicate **clearly**, the options you attempt along with its respective question number.

**Q.1** (a) Give importance of railway. [5]

(b) Advantages and disadvantages of tunneling [5]

**Q.2** (a) State different types of surveys conducted before fixing railway alignment. Explain any two in detail. [5]

(b) Draw cross section of permanent way for B.G. railway as per IRS for single line and double line with all labeling. [5]

**OR**

(a) Write function of sleepers. [5]

(b) Classify tunnels based on shape. Explain circular and Egg shaped tunnel. [5]

**Q.3** (a) Explain requirement of ideal railway. [5]

(b) Write short note on size of tunnel. [5]

**OR**

(a) Compare flat footed rail and Bull headed rail. [5]

(b) Define creep of rail and state the effects of rails. [5]