

JAYPEE UNIVERSITY OF INFORMATION TECHNOLOGY, WAKNAGHAT

TEST-1 EXAMINATION- FEBRUARY -2018

B.Tech VI Semester

COURSE CODE: 10B11CE614

MAX. MARKS: 15

COURSE NAME: Transportation Engineering

COURSE CREDITS: 04

MAX. TIME: 1 HRS

Note: All questions are compulsory. Carrying of mobile phone during examinations will be treated as case of unfair means.

- Q1. Illustrate the various types of rail failures with sketches. (2.5)
- Q2. Discuss different types of rail-joints with the help of neat sketches and give their merits and limitations. (2.5)
- Q3. Discuss the different types of sleepers in use on Indian Railways and state relative merits and demerits of each in detail. (3)
- Q4. Describe in detail the different types of surveys to be carried out in a railway project. (3)
- Q5. Draw typical cross-sections of a railway track under the following conditions-
- (a) A B.G. straight track in cutting for a double line
 - (b) A B.G. track on curve for a single line
 - (c) A double line B.G. track for use of electric traction
 - (d) A double line B.G. track on curve in cutting (4)