JAYPEE UNIVERSITY OF INFORMATION TECHNOLOGY, WAKNAGHAT
TEST-1 EXAMINATION- FEBRUARY -2019
B.Tech VI Semester

COURSE CODE: 10B11CE614

COURSE NAME: Transportation Engineering

COURSE CREDITS: 04

MAX. MARKS: 15

MAX. TIME: 1 HRS

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

Q1. Explain and list the various instruments required for carrying out reconnaissance survey, preliminary survey and final location survey in a railway project. (3)

Q2. What do you mean by- a) Rack Railways, b) MAGLEV, c) Gang Beat (3)

Q3. Discuss in detail the different types of rail sections used on B.G. and M.G. tracks in India with sketches. What is the composition of rail steel for rails on points and crossings? (3)

Q4. Discuss the factors on which sleeper density depends and how the sleeper density is expressed for fish jointed track and for welded railway track. A B.G. track has a sleeper density of M+6. If the track is laid with welded rails of 26m length, find out the number of sleepers on one rail length. (3)

Q5. Compare the important characteristics of different types of sleepers on Indian Railways in tabular form. (3)