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JAYPEE UNIVERSITY OF INFORMATION TECHNOLOGY, WAKNAGHAT

TEST-1 EXAMINATION- FEBRUARY -2020

B.Tech VI Semester

COURSE CODE: 10B11CE614

MAX. MARKS: 15

COURSE NAME: Transportation Engineering

COURSE CREDITS: 04

MAX. TIME: 1 HRS

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

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Q1. Explain the following terms related to railway engineering-

- i. Rack Railways
- ii. Coning of Wheels
- iii. Cant Deficiency
- iv. Check Rails
- v. Gang Beat
- vi. Roaring Rails

Q2. Describe the methods of welding of rails giving suitability of each.

Q3. Compare different types of sleepers in a tabular form (any nine points).

Q4. What is the necessity of bearing plates? Under what circumstances, the use of such plates is warranted?

Q5. Discuss different types of rail-joints with the help of neat sketches and give their merits and demerits.