

JAYPEE UNIVERSITY OF INFORMATION TECHNOLOGY, WAKNAGHAT

TEST -2 EXAMINATION- March-April 2017

M. Tech. 2nd Semester

COURSE CODE: 10M11CE212

MAX. MARKS: 25

COURSE NAME: Heavy/Civil Construction Equipments, Methods, and Management

COURSE CREDITS: 03

MAX. TIME: 1.5 Hrs

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

1. Explain the type and working of the various earth moving machines. Write the procedure to determine the output of a scraper. [5]
2. Write the specialties of Crawler and Wheel Tractors separately. Write the formula to calculate the Gradability for any particular gear. [5]
3. Write the short notes on the following: (1) Rolling Resistance (2) Drawbar pull [5]
4. Explain the terms *Gradability* and *Coefficient of traction* in brief [5]
5. Classify the construction equipments on the basic of their job; nature of working process; operation conditions; type of drive; capacity; type of running gear and kind of control. [5]