

Roll No:.....

JAYPEE UNIVERSITY OF INFORMATION TECHNOLOGY, WAKNAGHAT

TEST -1 EXAMINATION- February 2018

M. Tech.-II/B, Tech.-VIII Semester

COURSE CODE: 12M1WCE214

MAX. MARKS: 15

COURSE NAME: THEORY OF PLATES AND SHELLS

COURSE CREDITS: 03

MAX. TIME: 1.0 Hrs

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

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1. Derive the differential equation for cylindrical bending of plates [5]
2. Evaluate the expression for the deflection in cylindrical bending of plate with uniformly distributed load for simply supported case. [5]
3. Derive the differential equation of plate for small deflection and lateral loading. [5]