

JAYPEE UNIVERSITY OF INFORMATION TECHNOLOGY, WAKNAGHAT TEST -2 EXAMINATION- 2017

B.Tech 8th Sem/ M.Tech 2nd Sem

COURSE CODE: 12M1WCE214	MAX. MARKS: 25
COURSE NAME: THEORY OF PLATES AND SHELLS	
COURSE CREDITS: 03	MAX. TIME: 1Hr 30 Min
Note: All questions are compulsory. Carrying of mobile phone du	ring examinations will be
treated as case of unfair means. Assume any suitable data if needs	ed
Q1. Deduce the differential equation for a circular plate with hole	at the center. (6)
Q2. Find the deflection at the center of a simply supported rectang	gular plate if it is subjected to
Hydrostatic pressure of loading. Also find the relation in case of s	quare plate. (5)
Q3. Find the deflection at the center of a simply supported rectang	gular plate under a load in form
of a triangular Prism.	(7)
Q4. Consider simply supported rectangular plates under sinuso equation to find the deflection, bending moments and shear forc values.	