Dr. G. J. Sinsh.

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

M. Tech. 4th Semester

COURSE CODE: 11M1WCE133 MAX. MARKS: 25

COURSE NAME: BRIDGE ENGINEERING

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.

- Explain the IRC Slandered Live Loads. [5]
 Write the impact allowance as a fraction or percentage of the applied live loads for the various class of IRC loadings [5]
 Analyze a slab culvert having the following primary data as: Width:12 m (With no footpath); exposure condition: moderate; Steel: Fe 415; Concrete: M 25; Clear span: 5 m; Height of vent: 3
- exposure condition: moderate; Steel: Fe 415; Concrete: M 25; Clear span: 5 m; Height of vent: 3 m; Depth of foundation:1.35 m; Wearing course: 56 mm asphaltic concrete and therefore find the maximum bending moments for the following classes of IRC loading
- (a) Class AA tracked vehicle

 (b) Class AA wheeled vehicle

 [5]
- (c) Class A two-lane loading [5]