

THE HONG KONG POLYTECHNIC UNIVERSITY  
HONG KONG COMMUNITY COLLEGE

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**Subject Title** : Engineering Mechanics II

**Subject Code** : CCN3126

**Session** : Semester Two, 2017/18

**Numerical Answers**

**Question A1**

- (a) 0.312 kg·m<sup>2</sup>
- (b) 2.88 s
- (c) 685 N/m

**Question A2**

- (b) +27.5 MPa; +12.5 MPa; -13.0 MPa
- (c) +35 MPa; +5 MPa; 15 MPa; 60°; 150°

**Question A3**

- (a) 14.02 kN; 2.58 kN

**Question B1**

- (a) 1.59 m/s
- (b) 0.745 m
- (c) 0.518 s

**Question B2**

- (b) 70.6 MPa
- (c) 22.2 MPa

**Question B4**

- (a) 240
- (b) 18.0 MPa
- (c) 4.28 kN