

THE HONG KONG POLYTECHNIC UNIVERSITY  
HONG KONG COMMUNITY COLLEGE

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**Subject Title** : Products and Materials in Modern Society      **Subject Code** : CCN2028

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

**Numerical Answers**

**Question B1**

- (a)(i) 138.716MPa
- (b)(i) 10MPa
- (b)(ii) 50MPa, -30MPa, -0.6

**Question B2**

- (a)(i) 2.6
- (a)(ii) 52 MPa
- (b) 8.654mm

**Question B3**

- (a) 2045°C
- (b) 2275°C
- (c) 35wt%
- (d) 0.444, 0.556
- (e) 2195°C

**Question B4**

- (a) 27.36GPa
- (b) 50kN, 43.858kN
- (c) 0.00365
- (d) 8.787GPa

**Question B5**

- (c) 268103703N, 85.340MPa