

THE HONG KONG POLYTECHNIC UNIVERSITY  
HONG KONG COMMUNITY COLLEGE

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**Subject Title** : Industrial Engineering Techniques and Methods      **Subject Code** : CCN3137

**Session** : Semester Two, 2013/14

**Numerical Answers**

**Question B1**

- (a) 187,000 pc/mo
- (b) 2308.642 pc/person-mth; 104.938pc/person-day; 13.11 pc/person-hr
- (c)(i) 217,600 pc/mo
- (c)(ii) 1.428; 1.428; 0.9824

**Question B2**

- (d) 0.5217
- (e) 0.696

**Question B3**

- (a) 40 units/hr
- (b) 1.44 min
- (c) 1.24 min
- (d) 0.861
- (e) 5 workers
- (f) 6 workers
- (g) 4 min

**Question B4**

- (a)(i) 1.6 min; 8.557 min
- (a)(ii) 8.109 min
- (a)(iii) 56; 59
- (a)(iv) 105%
- (b)(i) 20771pc
- (b)(ii) 74.2%
- (b)(iii) 6

**Question B5**

- (a) 385
- (b) 0.7001; 0.7999
- (c) 10.4449mins
- (d) 20%
- (e) 11.6565 min