

THE HONG KONG POLYTECHNIC UNIVERSITY
HONG KONG COMMUNITY COLLEGE

Subject Title : Aircraft Materials

Subject Code : CCN2291

Session : Semester Two, 2015/16

Numerical Answers

Question B4

(a)

Strain	Stress (MPa)
0	0
24.8	0.0006
49.5	0.001
73.9	0.0014
98.687	0.0018
123.064	0.002
148.9	0.0026
157.6	0.003
163.5	0.008
188.6	0.032
220.9	0.050
243.7	0.090
266.5	0.150
271.2	0.250
266.5	0.310
241.7	0.400
Fracture	Fracture

(b) 57.27 GPa

(c) 271.2 MPa

(d) 233,400 Pa