

THE HONG KONG POLYTECHNIC UNIVERSITY
HONG KONG COMMUNITY COLLEGE

Subject Title : Aircraft Materials

Subject Code : CCN2291

Session : Semester Two, 2016/17

Numerical Answers

Question C3

(a)

Stress (MPa)	Strain
0	0
17.96	0.0001
36.08	0.0002
54.04	0.0004
72.00	0.0005
90.19	0.0006
91.75	0.0007
94.08	0.0008
104.96	0.0009
112.74	0.0012
116.63	0.0015
118.18	0.0019
119.74	0.0023
116.63	0.0027
112.74	0.0031
105.74	0.0042
101.08	Fracture

(b) 150 GPa

(c) 119.74 MPa

(d) 29,500 Pa