

## Solutions to Final Exam 2013/2014

### Part I: Multiple Choice Component (30 Questions)

Q1 = C	Q2 = A	Q3 = E	Q4 = D	Q5 = B	Q6 = C	Q7 = C
Q8 = B	Q9 = C	Q10 = B	Q11 = A	Q12 = E	Q13 = C	Q14 = A
Q15 = E	Q16 = D	Q17 = E	Q18 = C	Q19 = A	Q20 = B	Q21 = C
Q22 = D	Q23 = D	Q24 = E	Q25 = A	Q26 = B	Q27 = D	Q28 = E
Q29 = B	Q30 = A					

### Part II: Problem Solving/Short Answer (20 Questions)

Q31 = D (34.3 N)	Q32 = C (28.1 N)	Q33 = B (5.62 m/s <sup>2</sup> )
Q34 = A (74.5 kg)	Q35 = D (3.5 kJ)	Q36 = D (538 N)
Q37 = D (40.6 km/h)	Q38 = C (6.63 m)	Q39 = B (55 g/mol)
Q40 = E (313 <sup>0</sup> C)	Q41 = C (268 <sup>0</sup> C)	Q42 = D (+ 1388 J)
Q43 = A (- 1010 J)	Q44 = B (- 404 J)	Q45 = D (99 min)
Q46 = C ( $3.4 \times 10^{-17}$ m <sup>2</sup> /s)	Q47 = C (19.9 <sup>0</sup> )	Q48 = D (+ 2.57 dpt)
Q49 = E (1.52 m)	Q50 = B	