CHM 1001 General Chemistry

Assignment Answers

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Part 1: Multiple-choice questions

Question No.	Answers
1	D
2	A
3	C
4	C
5	D
6	B
7	A
8	A
9	B
10	C
11	D
12	A
13	B
14	C
15	D
16	C
17	B
18	B
19	D
20	C
Grades	

Part 2: Short answer questions (You can add pages if needed)

1. 1897, by Joseph John Thomson, negatively charged particles that found while experimenting with cathode ray tubes (sealed vacuum glass tubes).
2. $\lambda = 7.80 \times 10^{-7}$ m
   $h = 6.63 \times 10^{-34}$ m^2 kg / s
   $E = h \mu = h c / \lambda = (6.63 \times 10^{-34}) \times (3.00 \times 10^{8}) / (7.80 \times 10^{-7})$ J $= 2.55 \times 10^{-19}$ J
3. Photon is a massless elementary particle that carries energy.
   Electron is a negatively charged particle that present in all the atoms.
4. 4d
5. It is because the principle quantum number must be larger than angular momentum quantum number. (here, n=2 and l=2 resulting violation of the rule)