

CHM 1001 General Chemistry

Assignment Answers

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Part 1: Multiple-choice questions

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

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

1. Nitrogen oxides and volatile organic compounds

→ Nitrogen oxides mostly come from exhaustion

→ Volatile organic compounds come from many chemicals (e.g. paint)

$$2. E = E^{\circ} - \frac{0,0592}{n} \log Q$$

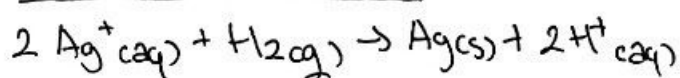
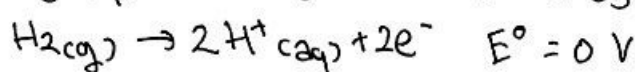
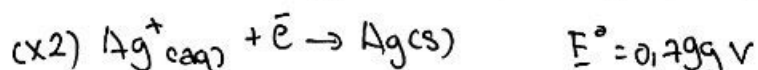
$$0,231 = - \frac{0,0592}{2} \log [H^+]^2$$

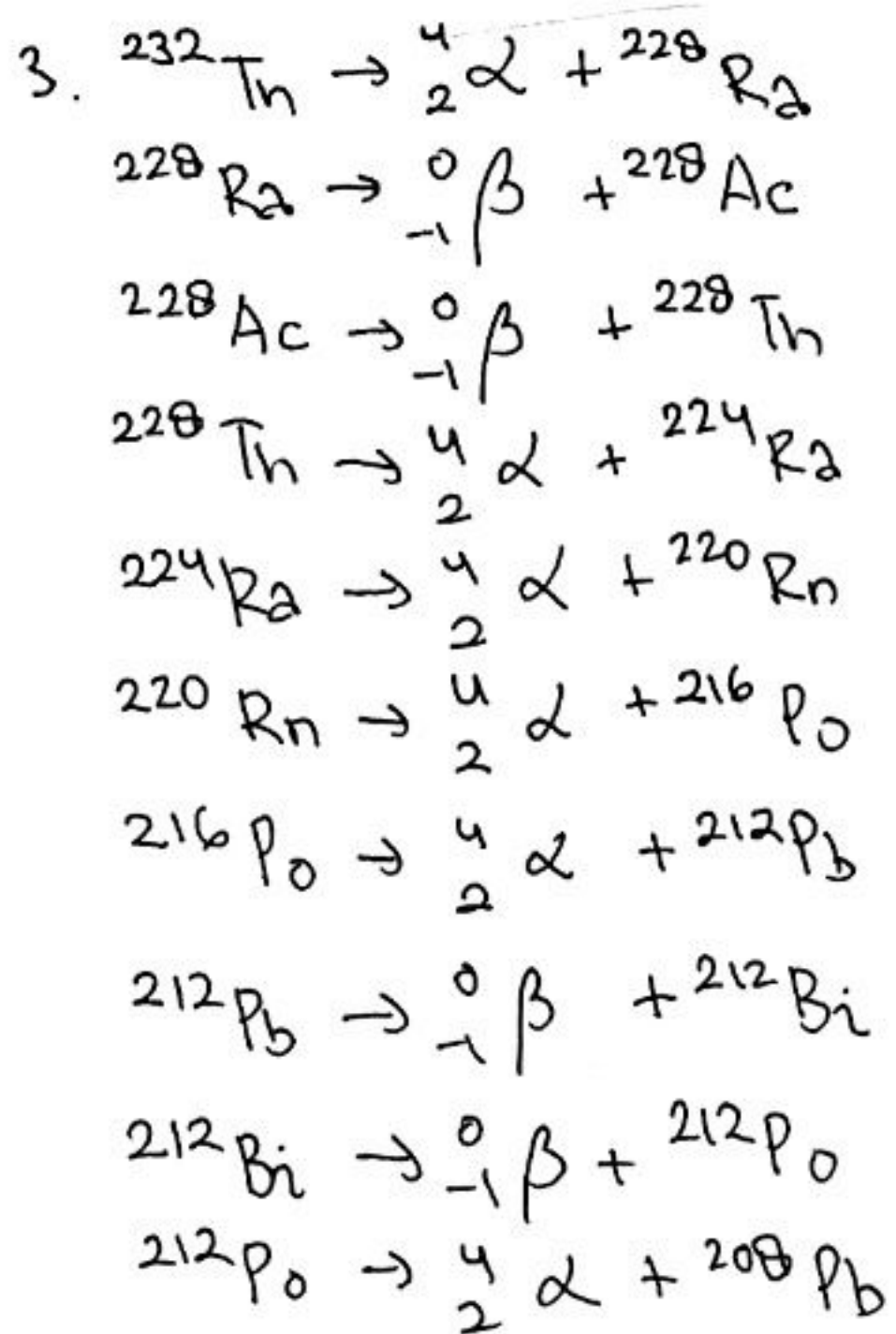
$$pH = \frac{1155}{296}$$

$$= pK_a + \log \frac{[A^-]}{[HA]}$$

$$[A^-] = 0,05 M, [HA] = 0,1 M$$

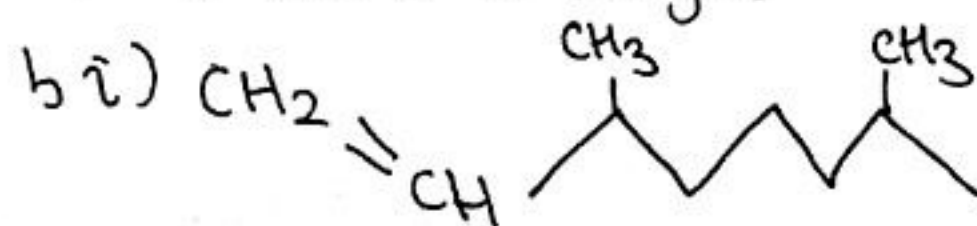
$$\therefore pK_a \approx 4,2$$



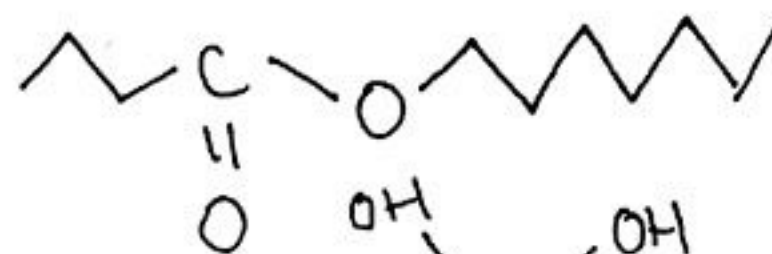


4a. i) 1-chloro 6-iodo hexane

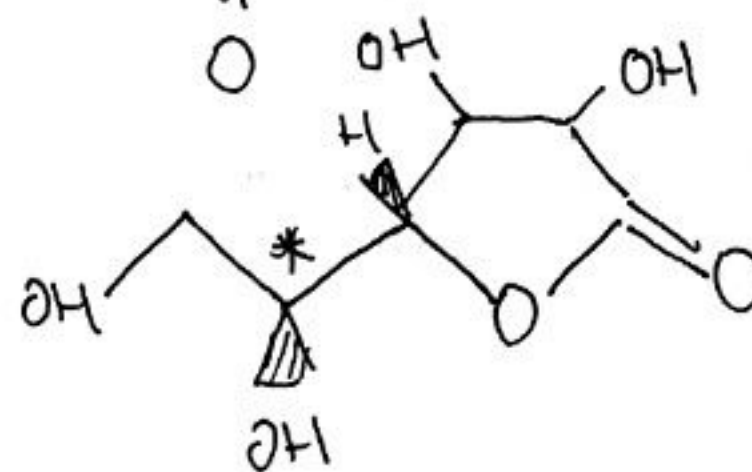
ii) 1-chloro 2-octyne



ii)



c i)



2 chiral centers

ii) 2, 3, 4, 5