1. Name the following structures using IUPAC nomenclature [10 marks]

|  |  |
| --- | --- |
| **Structure** | **IUPAC Name** |
| Chart  Description automatically generated with medium confidencea) |  |
| Diagram  Description automatically generatedb) |  |
| Chart  Description automatically generatedc) |  |
| d) |  |
| e) |  |

1. Draw the following organic compounds [10 marks]
2. 4,4-diethyloctane
3. methylhex-3-ene
4. Dichlorodifluoromethane
5. 1-chloro-2-methylpentane
6. *Trans*-but-2-ene

3. Complete the reactions below by drawing structural formulas or naming the substances as required. Afterwards, list the type of reaction and any observations that you would notice if doing this reaction. [9 marks]

a)

Type of reaction:

Name:

+ Br2 →



Name:

Structural formula:

Observations:

b)

Name:

Formula:

+ I2 → +



Type of reaction:

Observations: