NAME: ADETOKUNBO PRECIOUS ADEMIDE

MATRIC NO: 19/MHS11/015

PHARMACY

CHM102

STEREOCHEMISTRY AND FUNCTIONAL GROUPS

1. Name the functional group present in each of the following molwcules
2. CH2=C(OH)HCHO - Aldehyde/Carbonyl group-COH

* Alkene =
* Alcohol-OH

1. C6H5CH(NH2)COCH­3 - Amines
2. CH3C=CHCH(OH)CHO - Alkene

* Alcohol
* Aldehyde

1. A 0.856 g sample of pure (2R, 3R)- tatrtaric acid was diluted to 10cm3 with water and placed in a 1.0 dm polarimeter tube. The observation at 200c was +1.00. Calculate the specific rotation of (2R, 3R)-tatrtaric acid.

WHERE ꙋ = SPECIFIC ROTATION

[ꙋ] = ꙋ observed

------------------

C\*I

ꙋobserved = +1.0o

c = 0.856g/10cm3

= 0.856g/10ml

I = 1.0dm

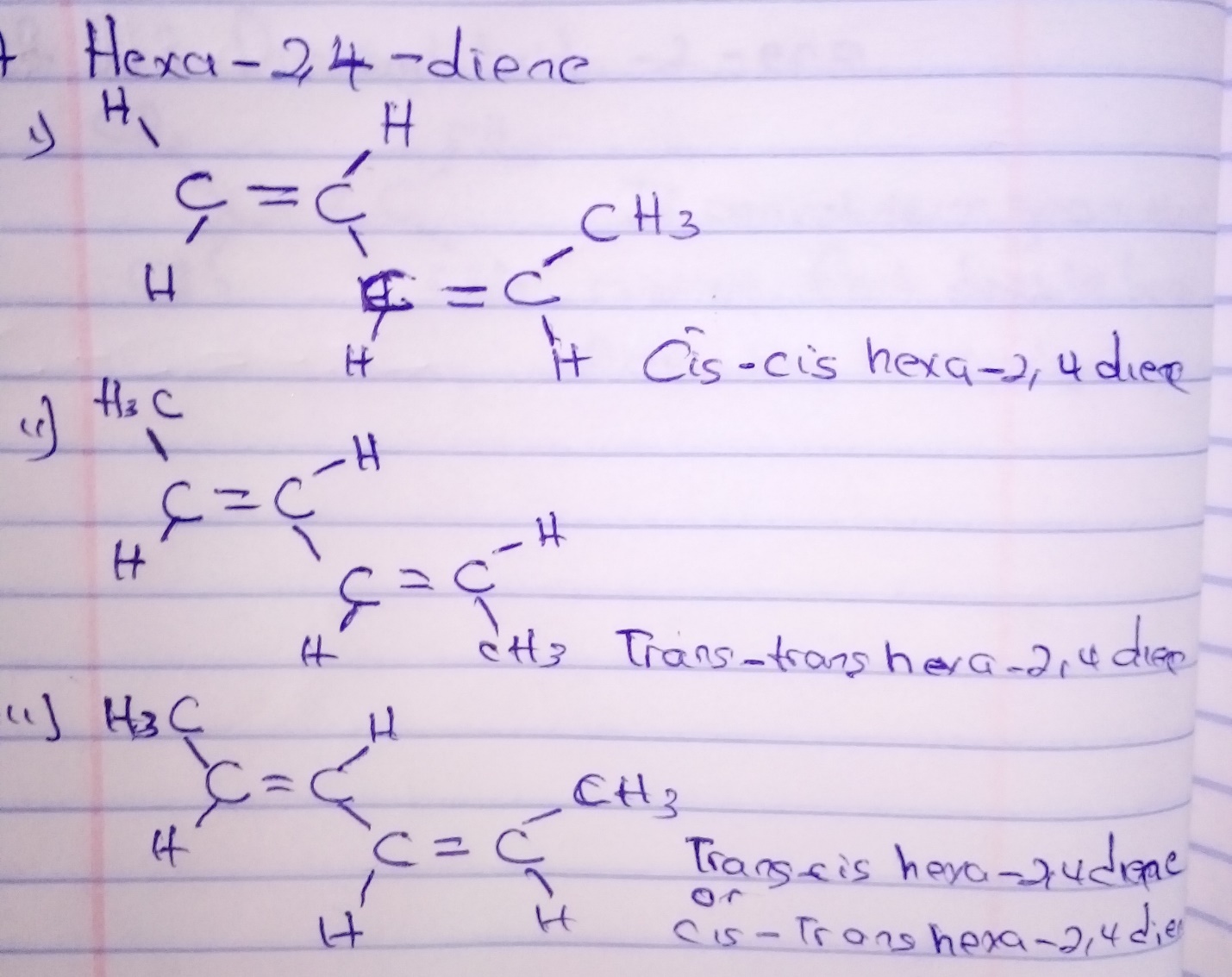
[ꙋ] = +1.0o

---------------

0.856g/10ml\*1.0dm

= +11.68o

1. Draw the possible geometric isomers (where possible) for each of the following compounds
2. Hexa-2-4-diene



1. 2,3 Dimethyl but-2-ene

