52nd IChO 2020
International Chemistry Olympiad
Istanbul, Turkey

CHEMISTRY FOR A BETTER TOMORROW

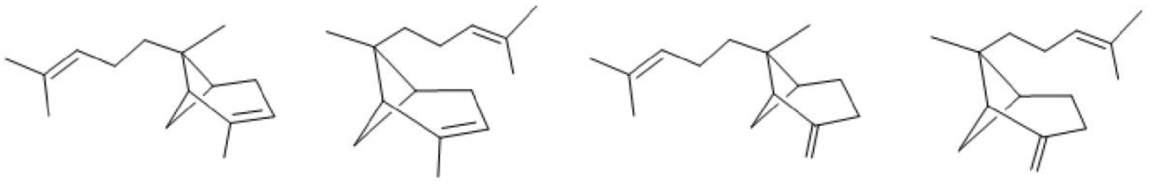
3-masala:

Earl Grey **choyining xushbo`y ta`mi: Bergamot.**

Cha	Chinese, Japanese, Korean, Portuguese…..
Chai	Russian, Persian…
Çay	Turkish, Azerbaijani…
čaj	Bosnian, Croatian, Czech, Serbian, Slovak..
Shay	Arabic…
Te	Italian, Spanish…
Tea	English…
Tee	German…
Thé	French…
Thee	Dutch…
Chaay	Hindi…
…..	…

Choy (turkchada: *çay*) Turkiya va boshqa turkiy xalqlar orasida rosa ommabop hisoblanadi. Turkiy choy madaniyati Ozarbayjondan tortib to Bolqon yarimoroligacha tarqalgan. Turkiya odam boshiga choy iste`mol qilish bo`yicha jahonda birinchi o`rinda turadi (2.5 kg/odam boshiga yiliga), bu borada u Birlashgan Qirollikni (2.1 kg/odam boshiga yiliga) ham ortda qoldiradi.

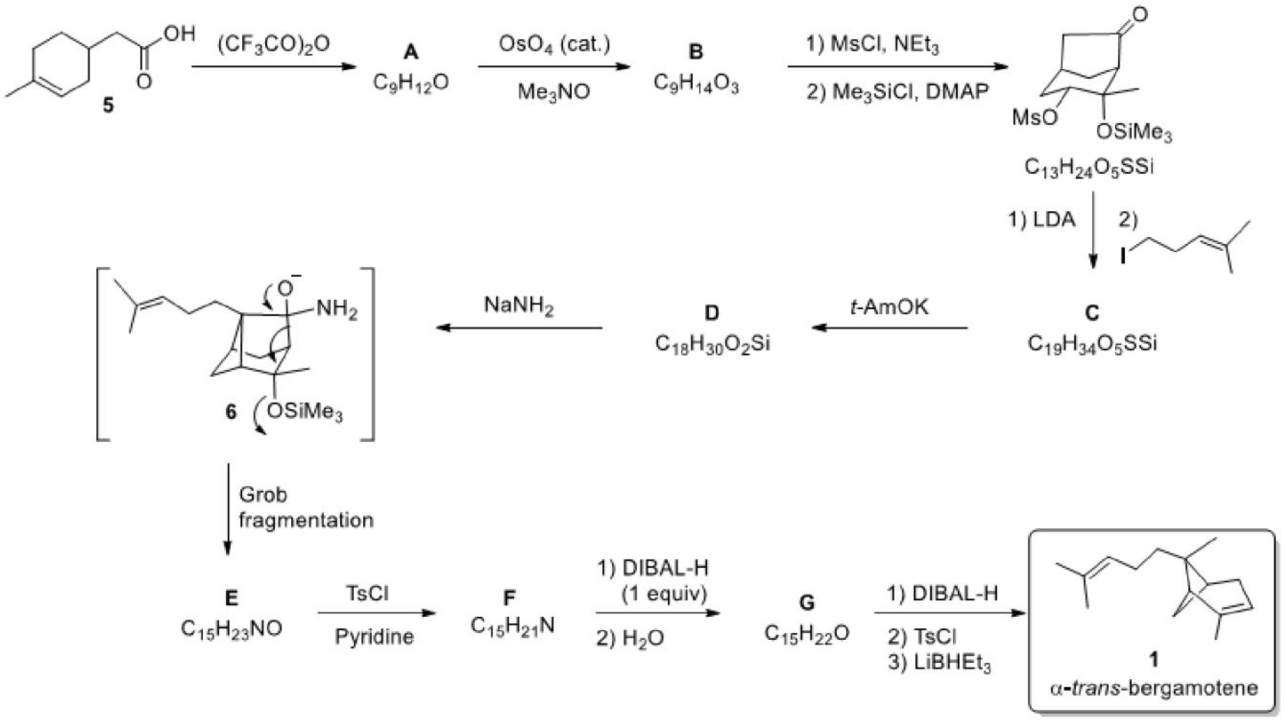
Bergamot va uning hosilalari (**1-4**) bo`lgan seskviterpenlar pinen monoterpenlarining analoglari hisoblanishadi. Bergamot moyidan topilgan bergamotenlar *Earl Grey* choyining hidi va ta`miga javob beradi.

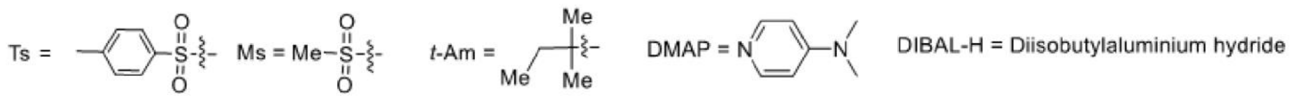


1 α-*trans*-bergamotene | **2** α-*cis*-bergamotene | **3** β-*trans*-bergamotene | **4** β-*cis*-bergamotene

1. Quyidagi sxema α-*trans*-bergamotenning sintezini namoyish etadi. **A-G** mahsulotlarning strukturalarini chizing.

2. **A** ning **B** ga aylanishida Me_3NO ning vazifasi nimada?

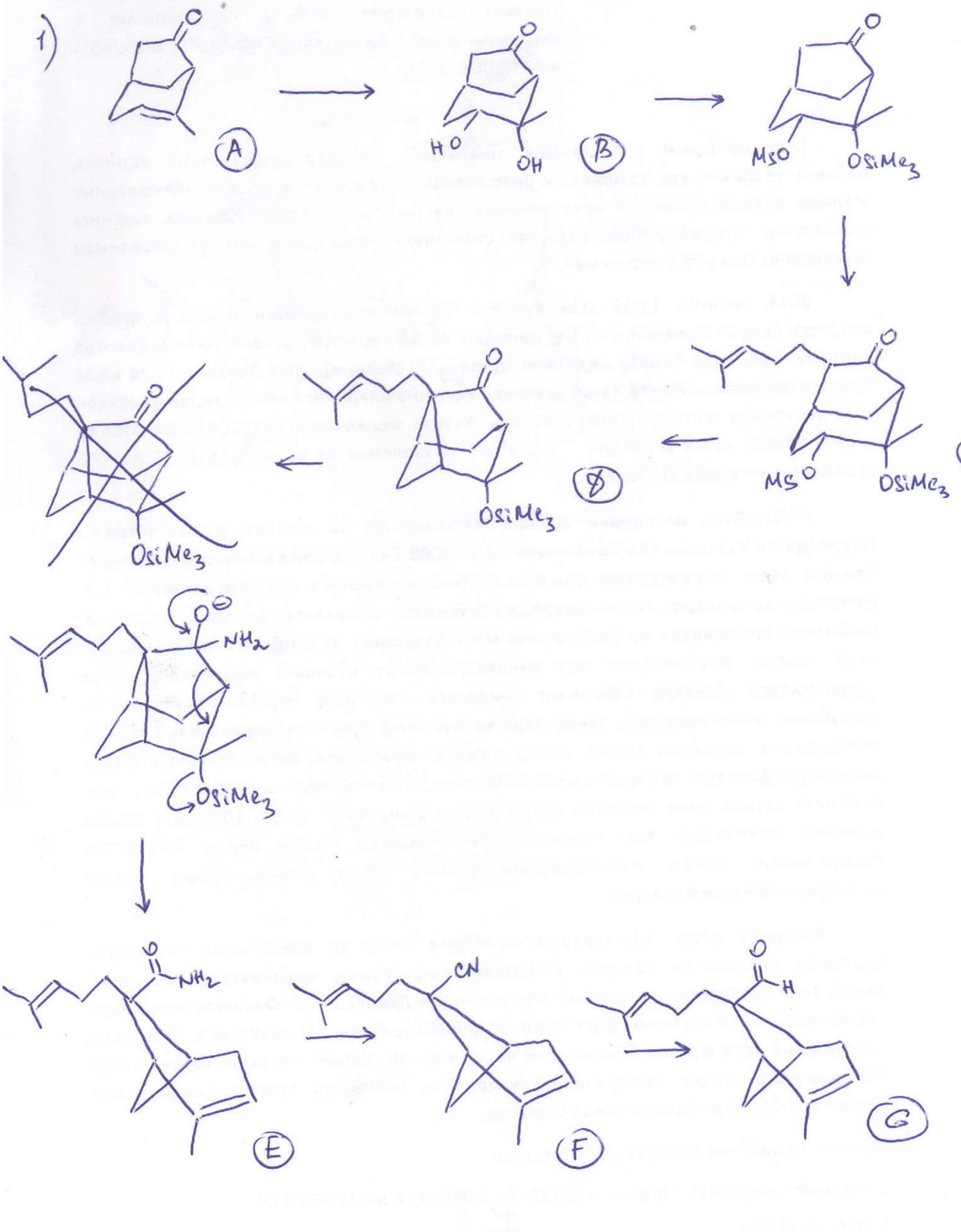




- - - TAMOM - - -

3- масала

1)



A
HO
OH
B
MsO
OSiMe3
C
MsO
OSiMe3
D
OSiMe3
O
OSiMe3
O⊖
NH2
OSiMe3
NH2
E
CN
F
H
G

Оксидловчи: