



OLIMPIADA NAȚIONALĂ DE CHIMIE DEVA, 2-7 aprilie 2023 Ediția a LVI-a

Barem de evaluare și de notare Proba teoretică Clasa a XI-a

Se punctează orice modalitate de rezolvare corectă a cerințelor.

Subiectul I (20 puncte)

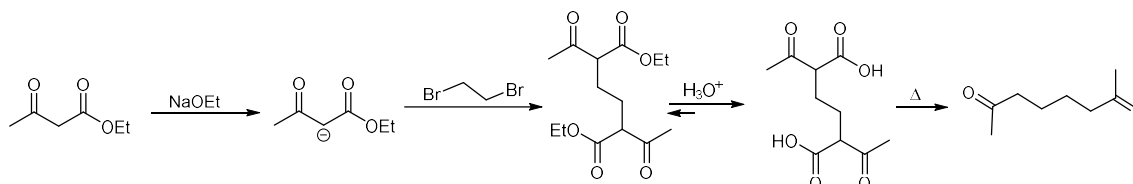
1. b; 2. d; 3. e; 4. d; 5. b; 6. b; 7. c; 8. d; 9. d; 10. a.
Fiecare răspuns corect primește 2 puncte

Subiectul al II-lea (25 puncte)

Subiectul A

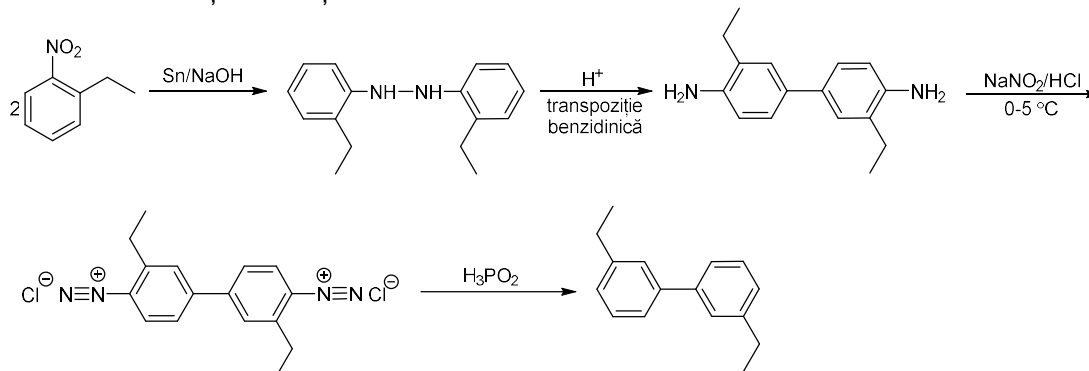
a. Scrierea ecuațiilor reacțiilor chimice

4 puncte



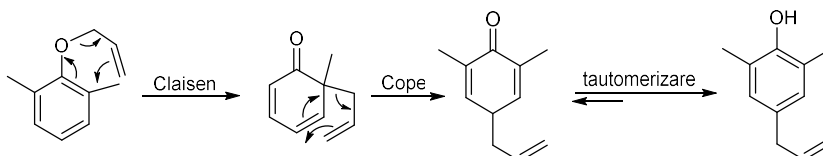
b. Scrierea ecuațiilor reacțiilor chimice

4 puncte



c. Scrierea ecuațiilor reacțiilor chimice

3 puncte

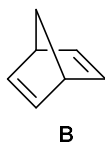
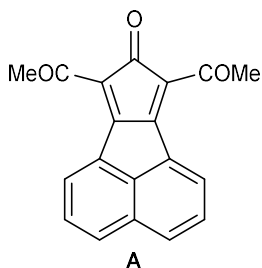


Subiectul B

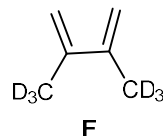
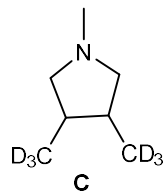
Olimpiada Națională de Chimie 2023
Barem de evaluare și de notare – proba teoretică
Clasa a XI-a

Pagină 1 din 6

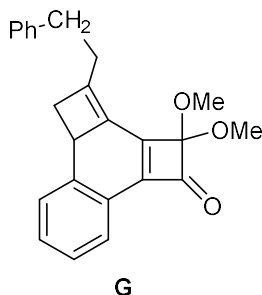
a. Scrierea formulei structurale ale compușilor **A** și **B** 2 x 1,5 = 3 puncte



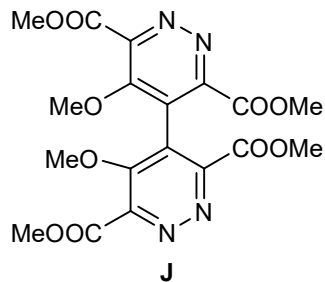
b. Scrierea formulei structurale ale compușilor **C** și **F** 2 x 1,5 = 3 puncte



c. Scrierea formulei de structură a compusului **G** 2 puncte

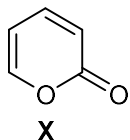


d. Scrierea formulei de structură a compusului **J** 2 puncte

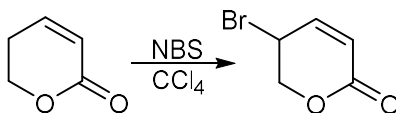


Subiectul C

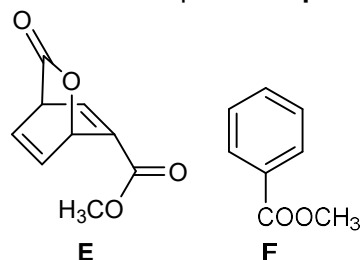
a. Scrierea formulei de structură a compusului **X** 1 punct



b. Scrierea ecuației reacției 3 din schemă 1 punct



c. Scrierea formulelor de structură ale compușilor **E** și **F** 2 x 1 punct = 2 puncte



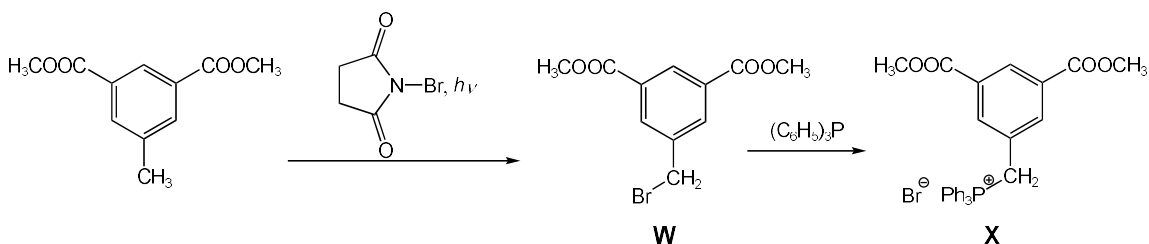
Subiectul al III-lea

(30 puncte)

Subiectul A

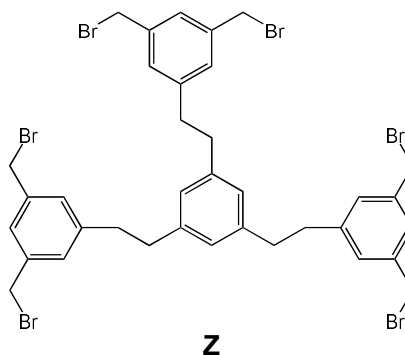
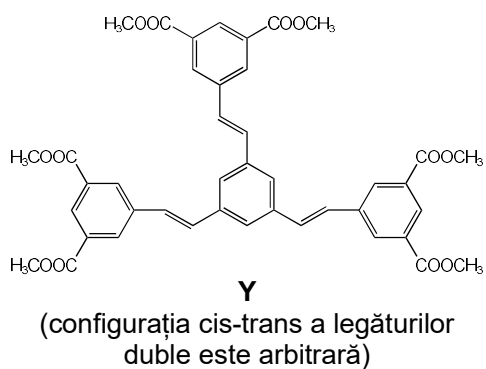
a. Notarea formulei moleculare a compusului **A**: $C_{36}H_{36}$ 1 punct

b. Scrierea ecuațiilor reacțiilor chimice corespunzătoare etapelor de obținere a compusului **X**, conform schemei date 2 x 1,5 puncte = 3 puncte



c. Scrierea formulelor structurale ale compuşilor **Y** şi **Z**

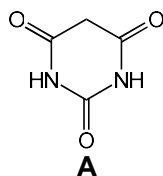
2 x 1,5 puncte = **3 puncte**



Subiectul B

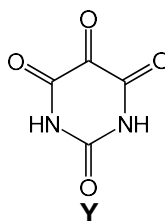
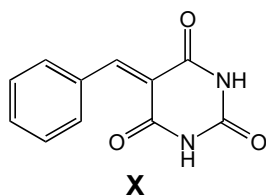
a. Notarea valorii NE pentru compusul **A**: NE = 4

2 puncte



b. Scrierea formulelor structurale ale substanțelor **X** şi **Y**

2 x 1,5 puncte = **3 puncte**

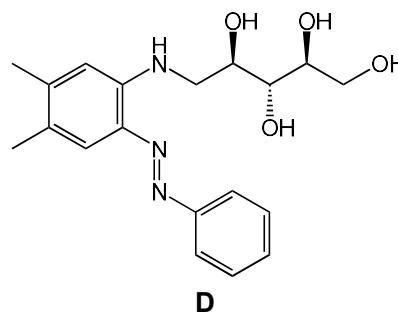
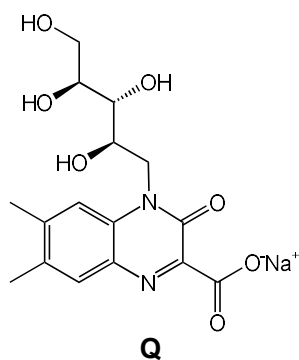


c. Notarea denumirii compusului **Z**: 3,4 – dimetilanilină

2 puncte

d. Scrierea formulelor structurale ale substanțelor **Q** şi **D**

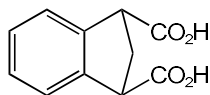
2 x 2 puncte = **4 puncte**



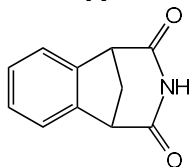
a. Scrierea formulelor structurale ale substanțelor A, B, C, D, G și H



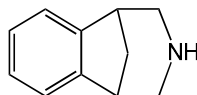
A



B



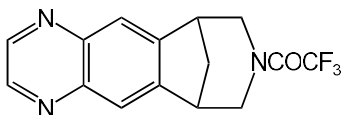
C



D

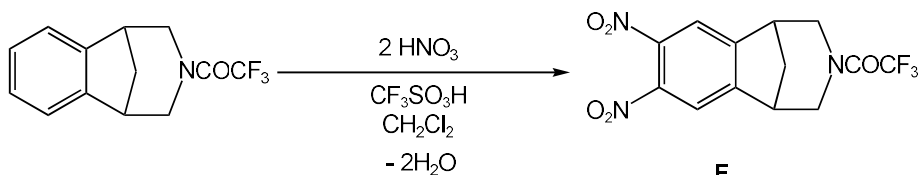
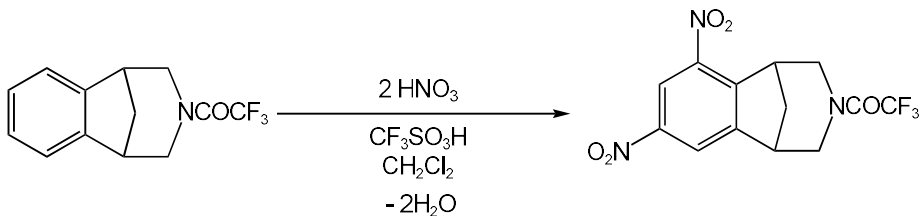


G



H

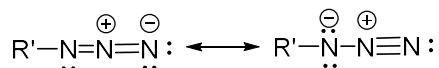
2 x 1,5 punte = 3 punte

**F**

F

(25 puncte)

2 x 1 punct = **2 puncte**

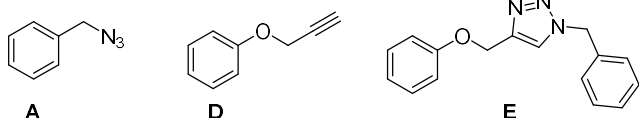


2 x 1 punct = **2 puncte**



c. Scrierea structurilor compușilor **A**, **D** și **E**

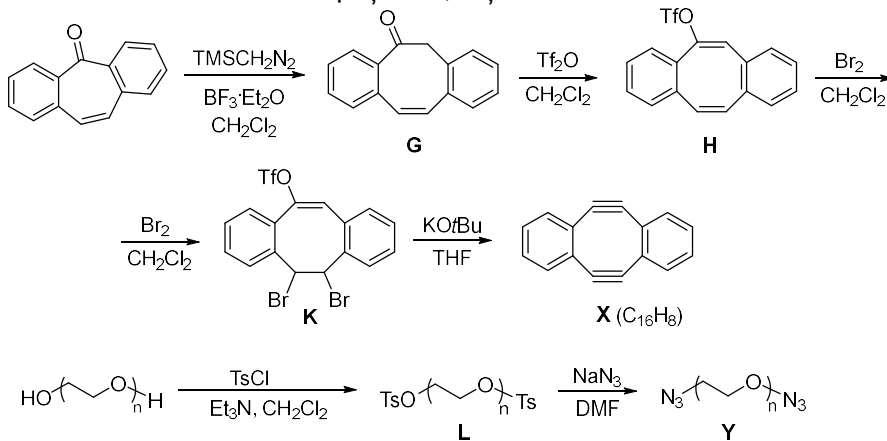
3 x 1 punct = 3 puncte



d. Scrierea structurilor compușilor **G**, **H** și **K**
Scrierea structurilor compușilor **X**, **L** și **Y**

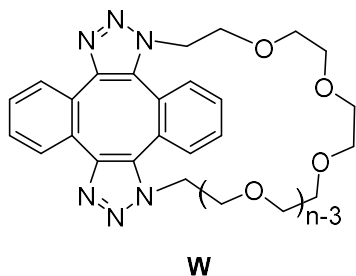
3 x 2 puncte = 6 puncte

3 x 1 punct = 3 puncte



e. Scrierea structurii compusului **W**

2 puncte

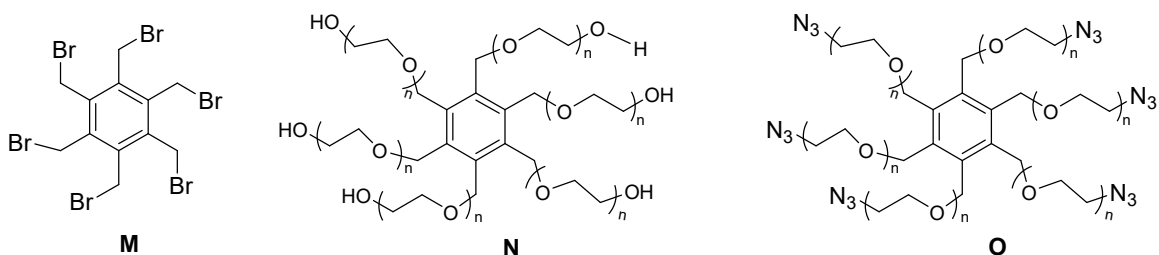


f. Scrierea structurii compusului **M**

2 puncte

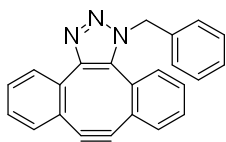
Scrierea structurilor compușilor **N** și **O**

2 x 1 punct = 2 puncte

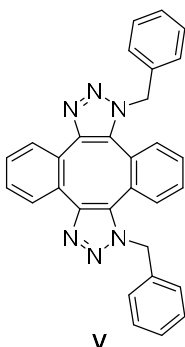


g. Scrierea structurilor compușilor **T**, **V**, **V'**

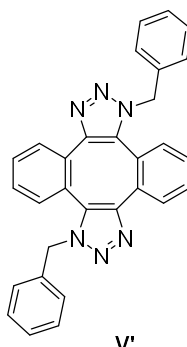
3 x 1 punct = 3 puncte



[T]



V



V'

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