



OLIMPIADA NAȚIONALĂ DE CHIMIE BAIA MARE, 14-18 aprilie 2022 Ediția a LV-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 de puncte)

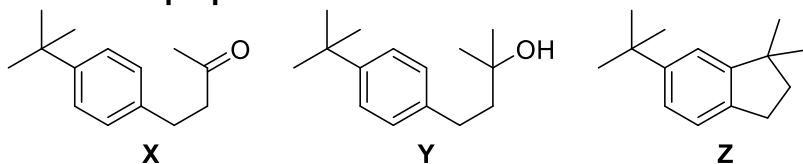
1 c; 2 a; 3 e; 4 c; 5.d; 6 b; 7 d; 8 d; 9 b; 10 e.

Fiecare răspuns corect primește 2 puncte

Subiectul al II-lea (25 de puncte)

Subiectul II.13 puncte

3 structuri x 1p=3p

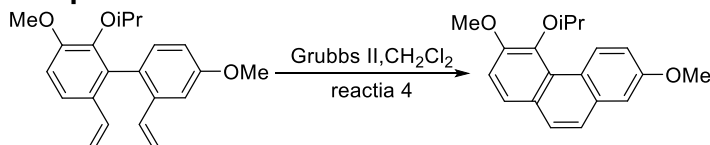


Subiectul II.29 puncte

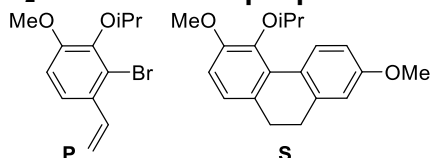
a. NE= 18 1p

b. $-33,6^\circ$ 2p

c1. 2p

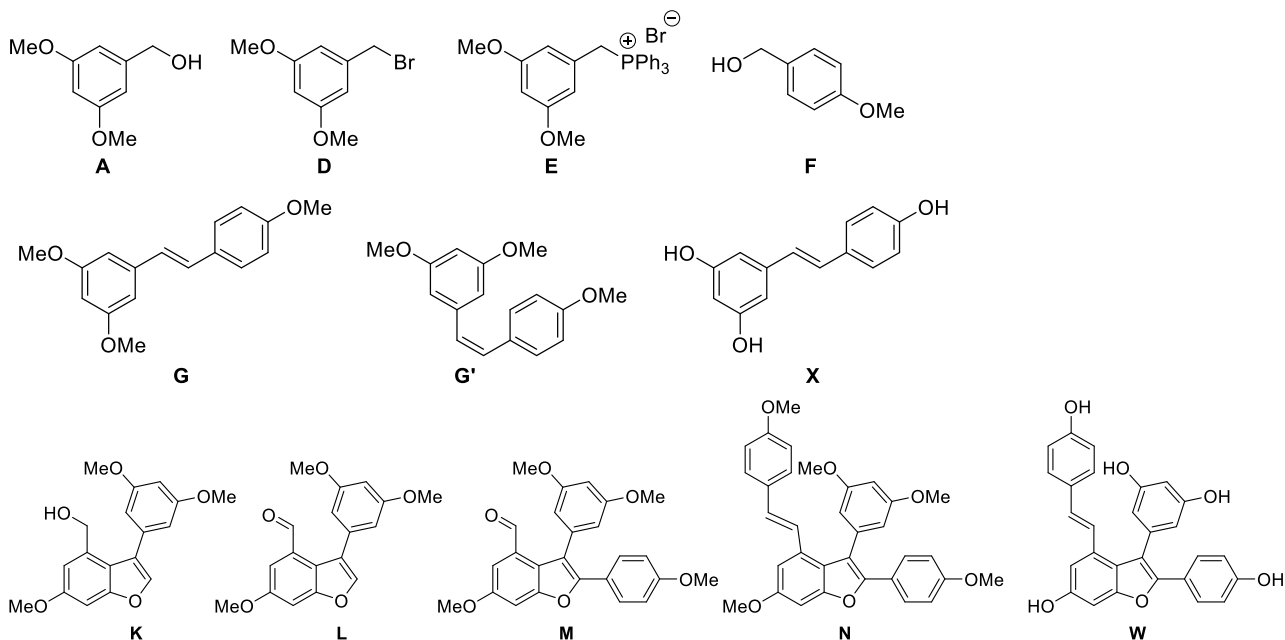


C2. 2 structuri x 2p=4p



Subiectul II.313 puncte

a. 12 structuri x 1p=12p



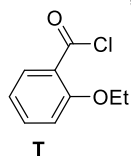
b. izomerizare *cis-trans* 1p

Subiectul al III-lea

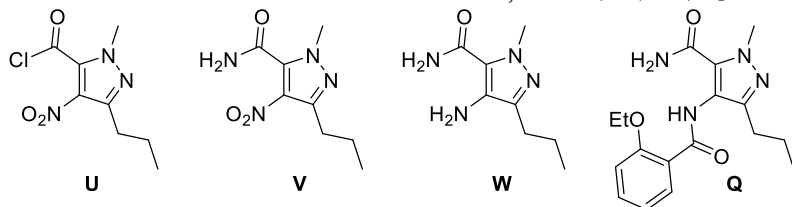
(25 de puncte)

Subiectul III.17 puncte

a. 6 reacții x 0,5p=3p

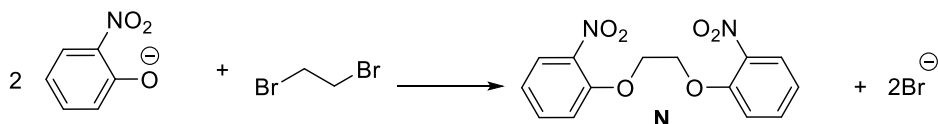
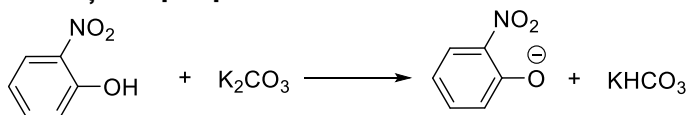


b. formulele structurale ale substanțelor U, V, W, Q 4x1p=4p

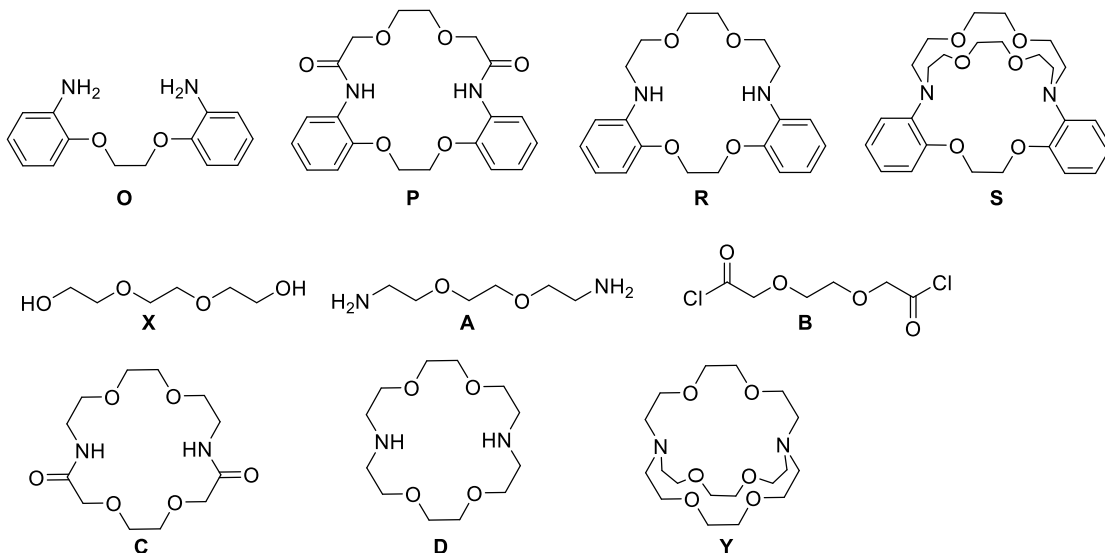


Subiectul III.212 puncte

a. 2 reacții x 1p=2p



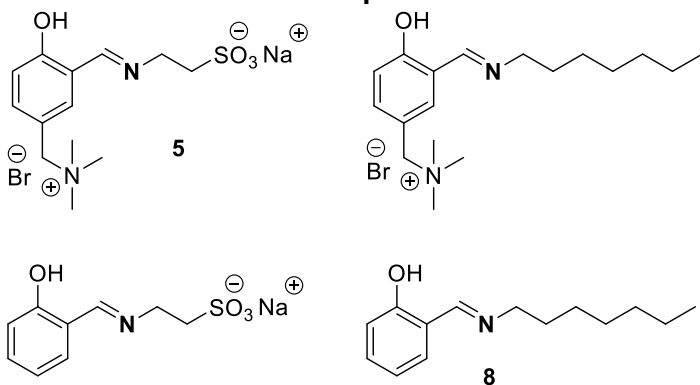
b. 10 structuri x 1p=10p



Subiectul III.36 puncte

Structuri 4x1p=4p

Notarea structurilor corespunzătoare numerelor 5 și 8 2p

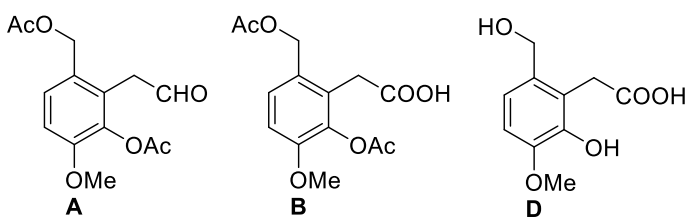


Subiectul al IV-lea

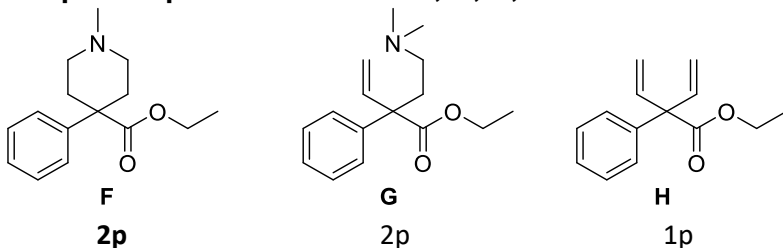
(30 de puncte)

Subiectul IV.18 puncte

a. 3 structuri x1p=3p



b. 5 puncte pentru structurile F, G, H, din care:

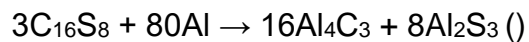


Subiectul IV.2.....22 puncte

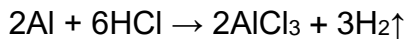
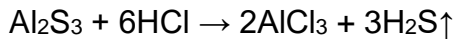
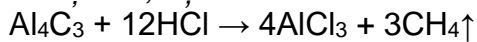
a. $C_{16}S_8$ (X) (1p)

b. 4 reacții x 2 puncte=8 puncte:

reacția 1:

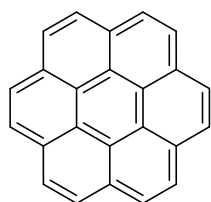


reacțiile 2,3 și 4:

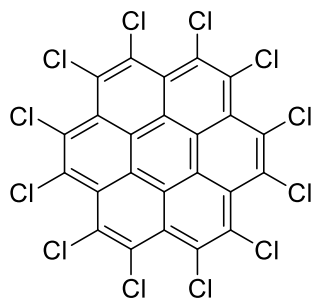


c. A, B, D, E, F - 5 structuri x 2p=10p

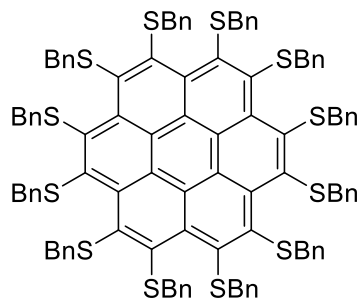
Structura Y 3p



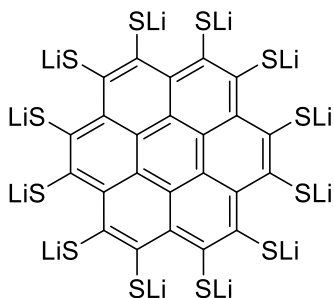
A



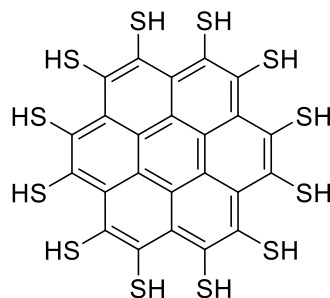
B



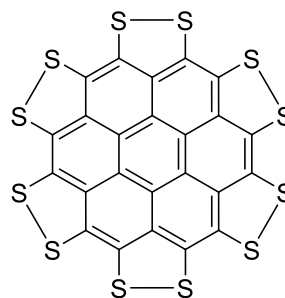
D



E



F



Y