



OLIMPIADA NAȚIONALĂ DE CHIMIE
SIBIU, 25-29 aprilie 2026
Ediția a LIX-a

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

- Se punctează orice modalitate de rezolvare corectă a cerințelor.
- Se acordă 10 puncte din oficiu.

Subiectul I _____ (20 de puncte)

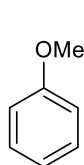
La fiecare din următorii 10 itemi, este corect un singur răspuns.

1. B; 2. A; 3. D; 4. B; 5. D; 6. C; 7. C; 8. D; 9. D; 10. E

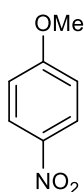
Subiectul al II-lea _____ (20 de puncte)

Subiectul II.A. Deducție structurală în chimia organică _____ (9 puncte)

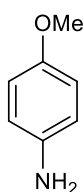
scrierea formulelor de structură ale compușilor (A), (B), (C), (D), (E), (F), (G), (H), și (I) (9 x 1p = 9p)



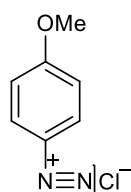
(A)



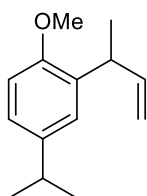
(B)



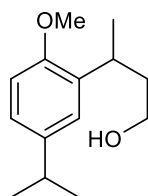
(C)



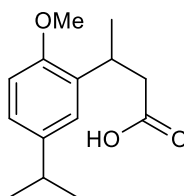
(D)



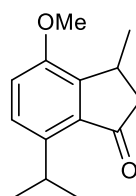
(E)



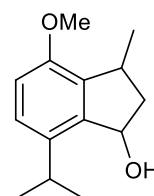
(F)



(G)



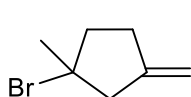
(H)



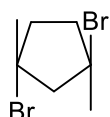
(I)

Subiectul II.B. Deducție structurală și izomerie optică _____ (5 puncte)

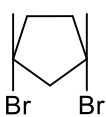
scrierea formulelor de structură ale compușilor (A), (B), (C), (D) și ale celor doi diastereoizomeri ai compusului (E)



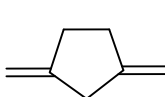
(A)



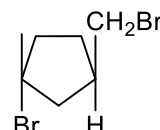
(B)



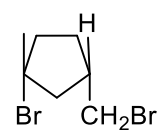
(C)



(D)



(diastereoizomerii compusului E)



(1p)

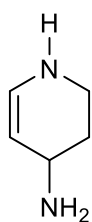
(1p)

(1p)

(1p)

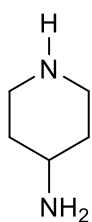
(2 x 0,5p = 1p)

scrierea formulei de structură ale compuşilor (A), (B), (C) şi (D)



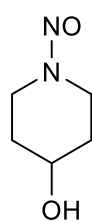
(A)

(1p)



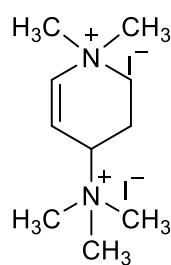
(B)

(1p)



(C)

(2p)



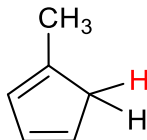
(D)

(2p)

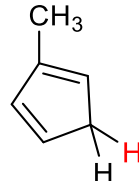
Subiectul III.A. Echilibru sigmatropic și transformări periciclice _____ (6 puncte)

C[C@H]1C=CC=C1

(A₁)



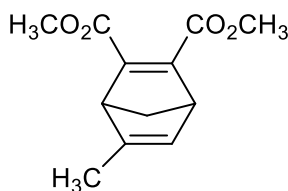
(A₂ sau A₃)



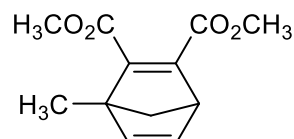
(A₃ sau A₂)

COC(=O)C1=C(C(=O)OC)C2C(C1)C(=C)C(C2)C

(B₁)

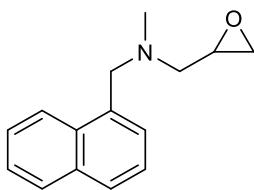


(B₂ sau B₃)



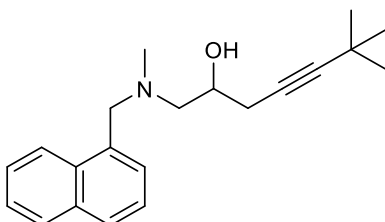
(B₃ sau B₂)

1. scrierea formulelor de structură ale compușilor **(D)**, **(E)** și **(F)**.



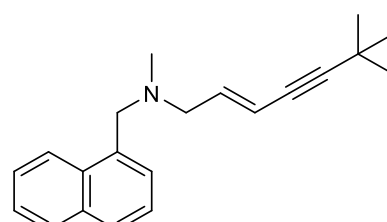
(D)

(1p)



(E)

(2p)



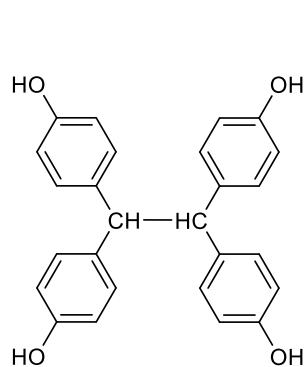
(F)

(2p)

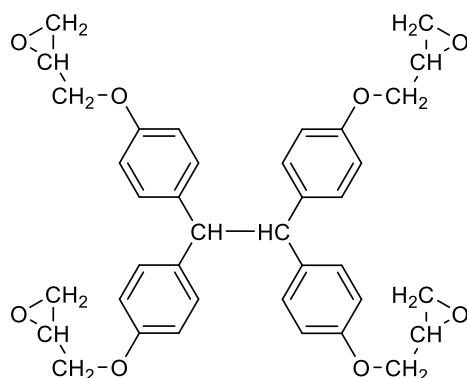
Olimpiada Națională de Chimie 2026

Barem de evaluare și de notare – proba teoretică

Clasa a-XI-a



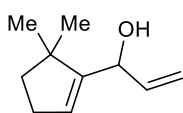
(M₁)



(M)

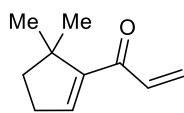
Subiectul III.C. Construcția unui sistem triciclic _____ (10 puncte)

scrierea formulelor de structură ale substanțelor (A), (B), (C), (D), (E), (F), (G) și (H)



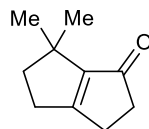
(A)

(1p)



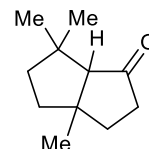
(B)

(1p)



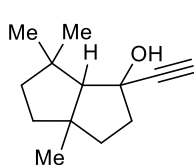
(C)

(2p)



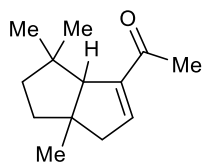
(D)

(1p)



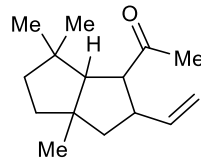
(E)

(1p)



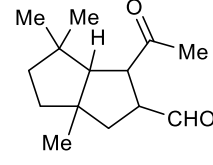
(F)

(2p)



(G)

(1p)



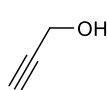
(H)

(1p)

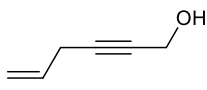
Subiectul al IV-lea _____ (25 de puncte)

Subiectul IV.A. Ciclizare multiplă de tip „zipper” _____ (14 puncte)

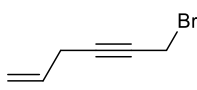
scrierea formulelor de structură ale substanțelor (A), (B), (C), (D), (E), (F), (G), (H), (K), (L), (M), (N), (O) și (Y) (14 x 1p = 14p)



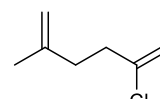
(A)



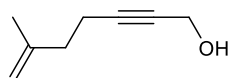
(B)



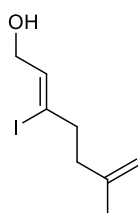
(C)



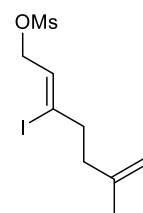
(D)



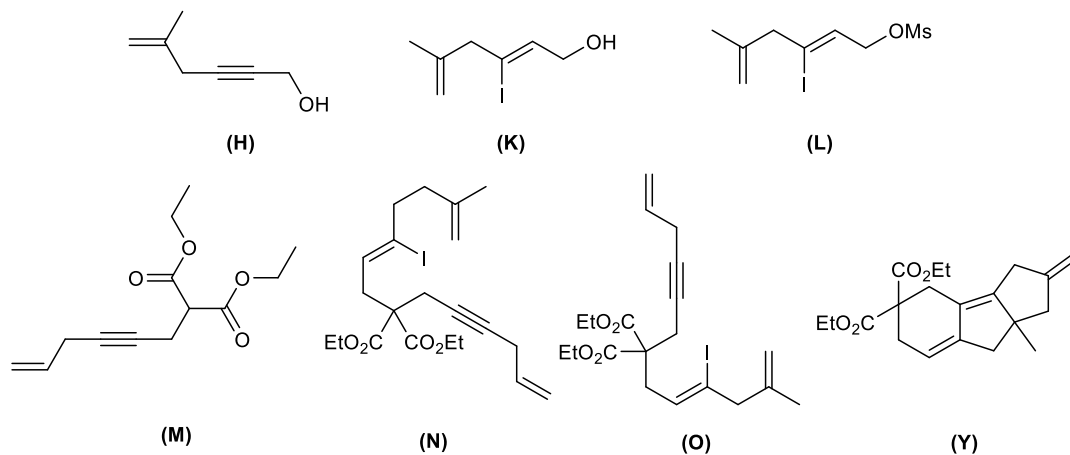
(E)



(F)

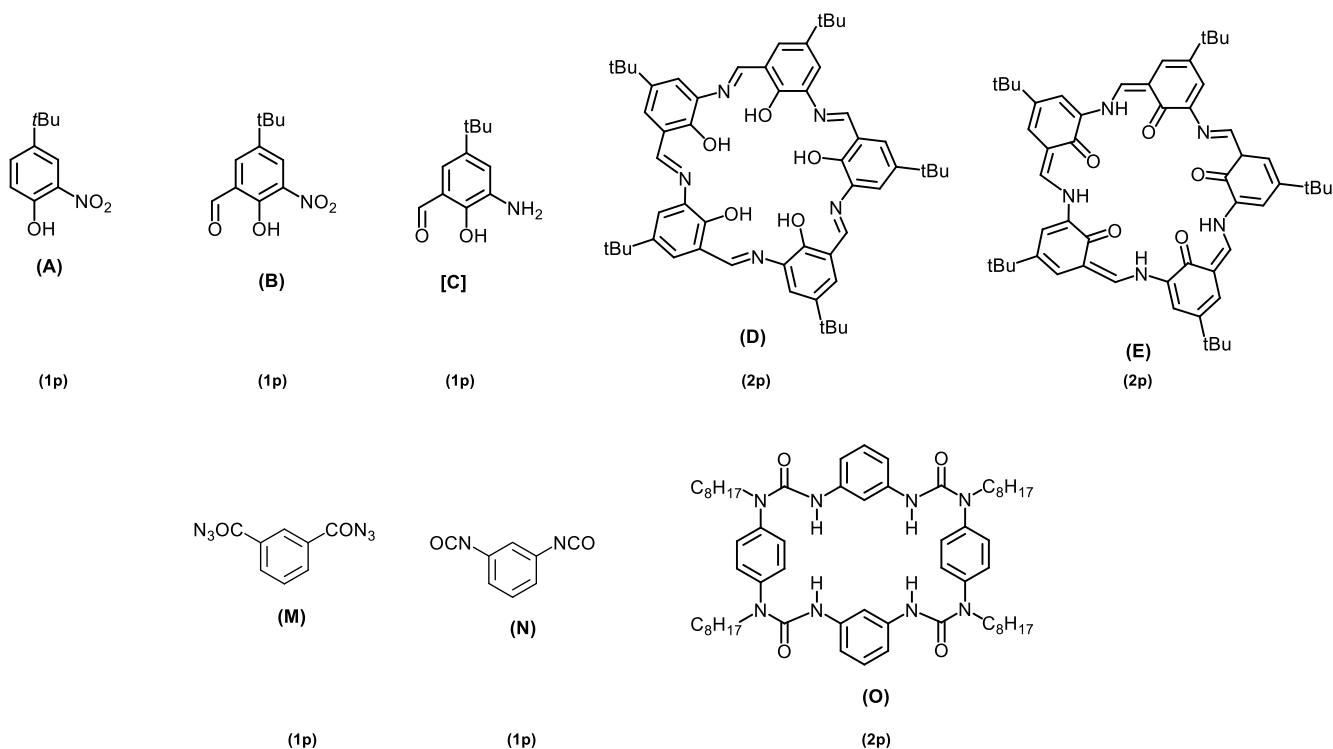


(G)



Subiectul IV.B. Arhitecturi moleculare cu rol de receptori anionici _____ (11 puncte)

scrierea formulelor de structură ale compușilor (A), (B), [C], (D), (E), (M), (N) și (O).



Barem elaborat de:

Prof. univ.dr. habil. Niculina Hădade, Universitatea "Babeș-Bolyai" din Cluj-Napoca

Prof. Costel Gheorghe, Colegiul Național "Vlaicu-Vodă", Curtea de Argeș

Prof. Dan Rotariu, Colegiul Național "Moise Nicoară", Arad

Prof. Constantin Guceanu, Colegiul Național "Mihai Eminescu", Botoșani

Prof. Anița Luncan, Colegiul Național "Emanuil Gojdu", Oradea

Prof. Laura Moșteanu, Colegiul Național "Ion Minulescu", Slatina

Prof. Iuliana Trifan, Colegiul Național "Vasile Alecsandri", Galați