Unit 2 - Week 1

Course outline

How to access the portal?

Week 1

- Lecture 1 : Introduction to Reaction Mechanisms
- Lecture 2 : Writing Reaction Mechanisms: Arrow pushing
- Lecture 3 : Types of Polar Reactions
- Lecture 4 : The Radical Reactions
- Quiz : Assignment 1
- Assignment 1 Solution
- Weekly Feedback

Week 2

Week 3

Week 4

Week 5

Week 6

Week 7

Week 8

Live Sessions

Download Videos

Assignment 1

The due date for submitting this assignment has passed.
As per our records you have not submitted this assignment.

Due on 2019-08-14, 23:59 IST.

1) Arrange the following groups in order of increasing electronegativity on the Pauling Scale *1 point*

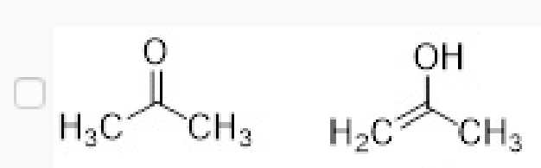
a) —C≡CH b) —OH c) —CH_3 d) —Ph

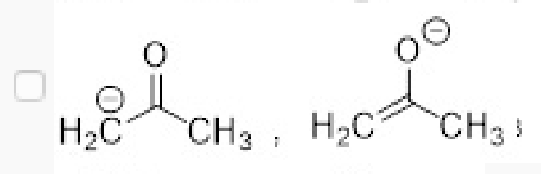
- ○ b < c < d < a
- ○ b < d < c < a
- ○ c < d < a < b
- ○ c < b < d < a

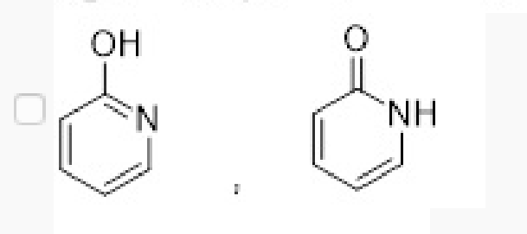
No, the answer is incorrect.
Score: 0

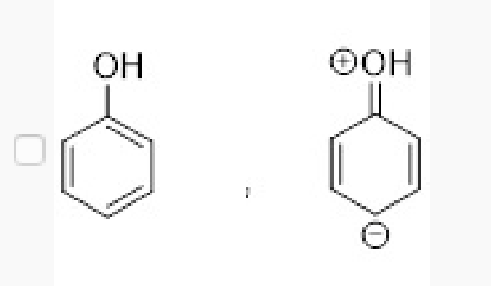
Accepted Answers:
c < d < a < b

2) Select the pair of compounds that are related to each other as resonance structures *1 point*

☐ 

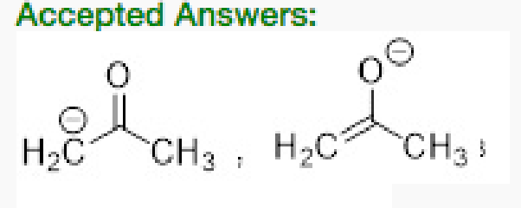
☐ 

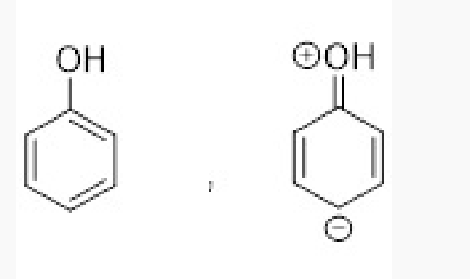
☐ 

☐ 

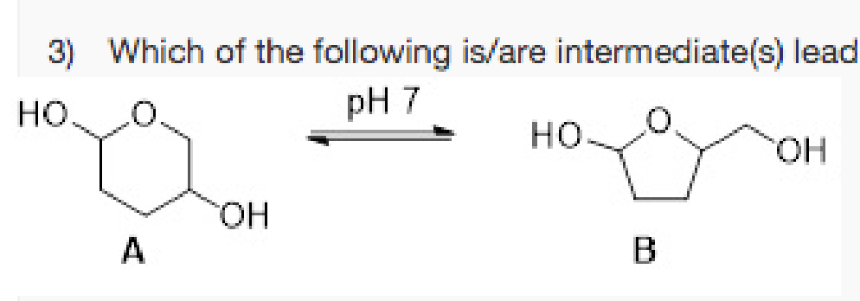
No, the answer is incorrect.
Score: 0

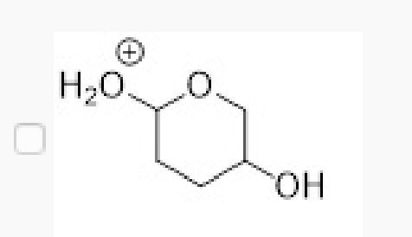
Accepted Answers:

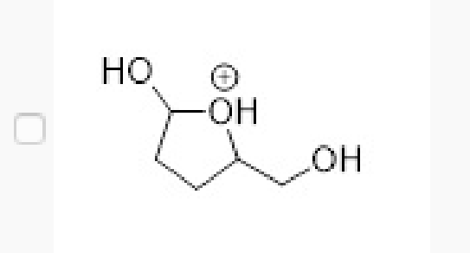


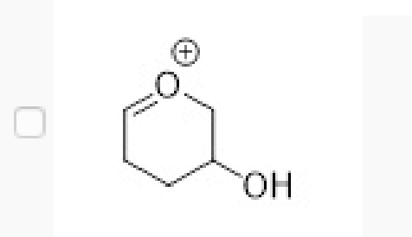


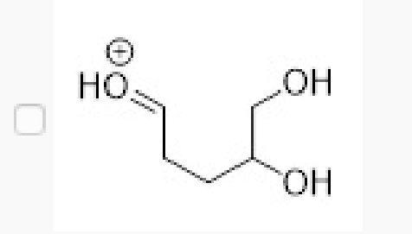
3) Which of the following is/are intermediate(s) leading to the product B in the reaction given? *0 points*



☐ 

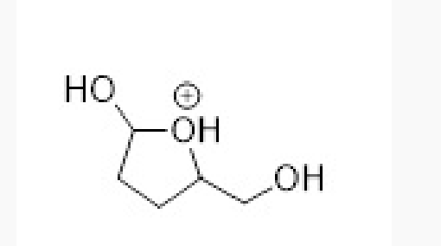
☐ 

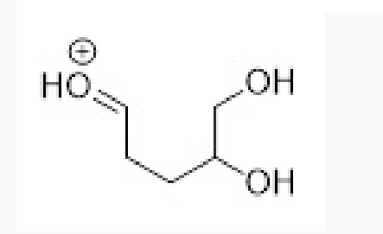
☐ 

☐ 

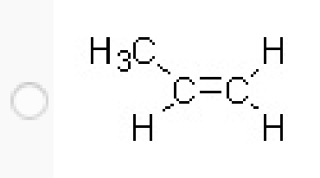
No, the answer is incorrect.
Score: 0

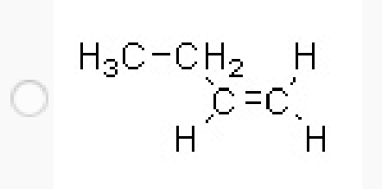
Accepted Answers:

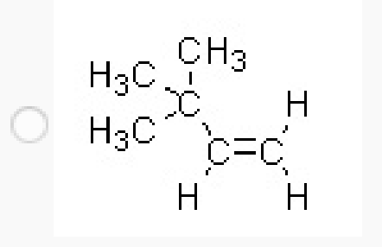




4) Which is the most stable among the following taking into account hyperconjugation? *1 point*

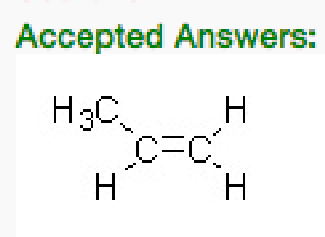
○ 

○ 

○ 

No, the answer is incorrect.
Score: 0

Accepted Answers:



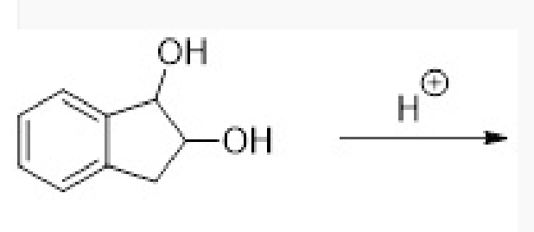
5) Which of the following can be classified as electron sources? *1 point*

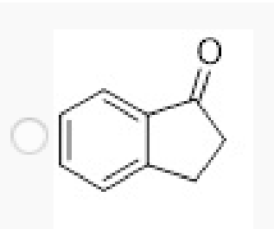
☐ Carbocations
☐ Enolate ion
☐ Carbon centre in a carbonyl group
☐ Oxygen non bonding electrons in a carbonyl group
☐ Lewis acids

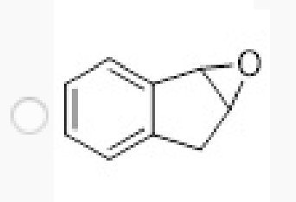
No, the answer is incorrect.
Score: 0

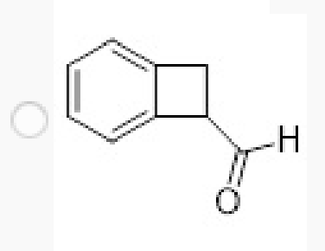
Accepted Answers:
Enolate ion
Oxygen non bonding electrons in a carbonyl group

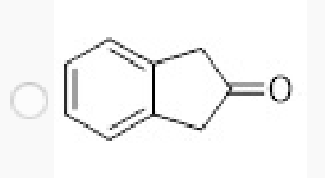
6) What is the major product of the following reaction? *1 point*



○ 

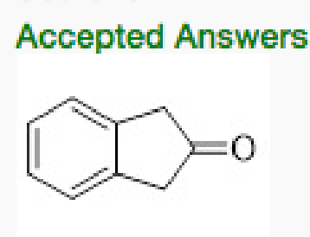
○ 

○ 

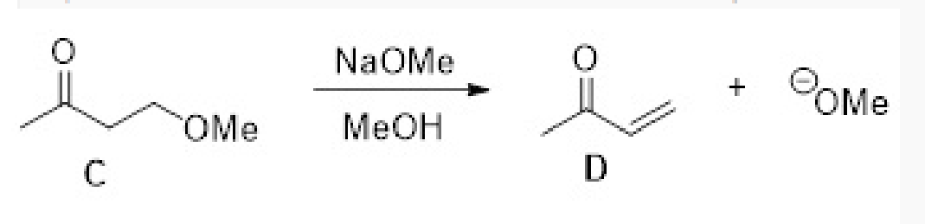
○ 

No, the answer is incorrect.
Score: 0

Accepted Answers:



7) The reaction below for conversion of compound C to compound D can be classified as *1 point*

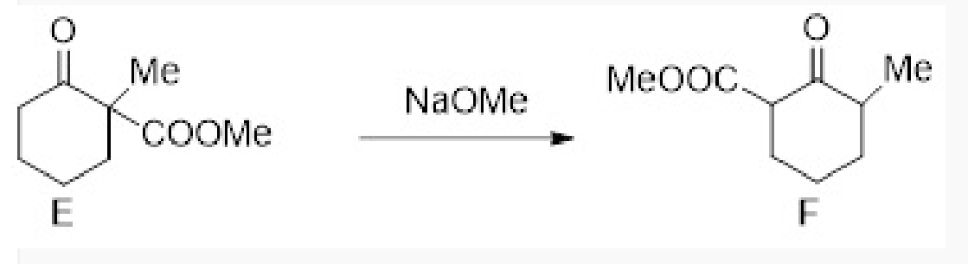


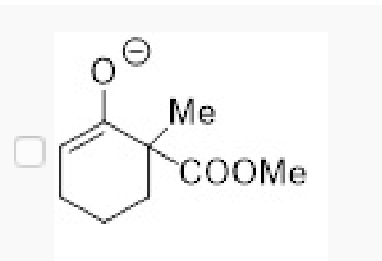
- ○ E1 elimination reaction
- ○ E2 elimination reaction
- ○ E1CB elimination reaction
- ○ None of the above

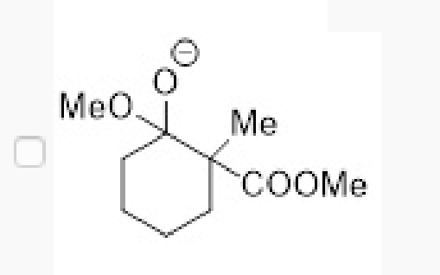
No, the answer is incorrect.
Score: 0

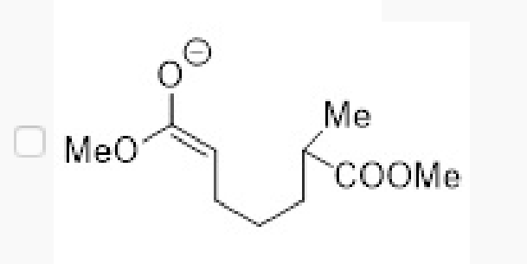
Accepted Answers:
E1CB elimination reaction

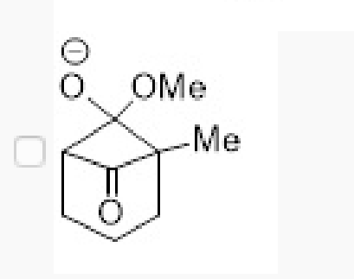
8) Which of the following intermediates leads to the product F in the given transformation? *1 point*



☐ 

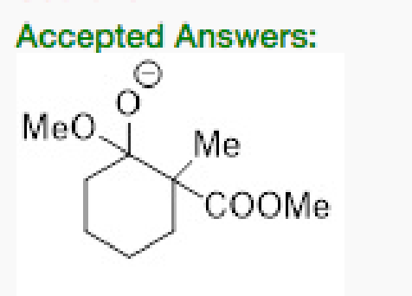
☐ 

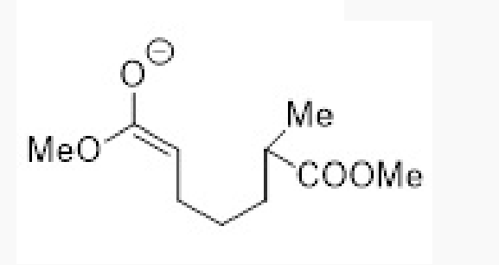
☐ 

☐ 

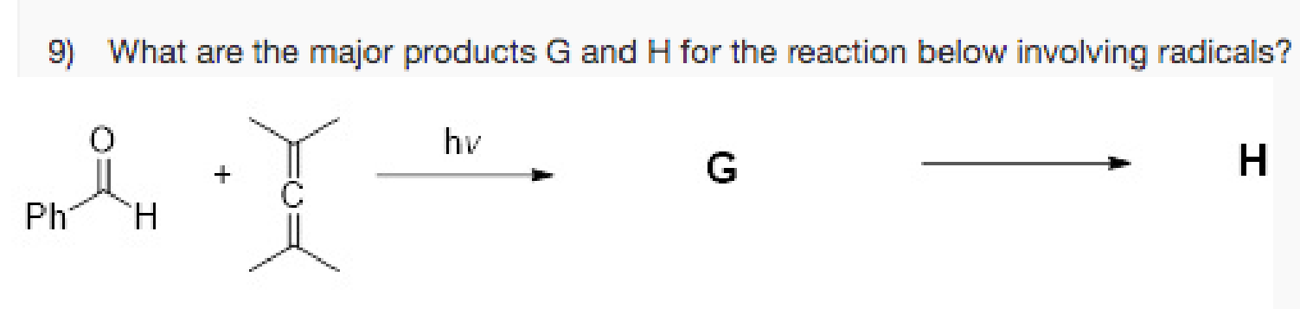
No, the answer is incorrect.
Score: 0

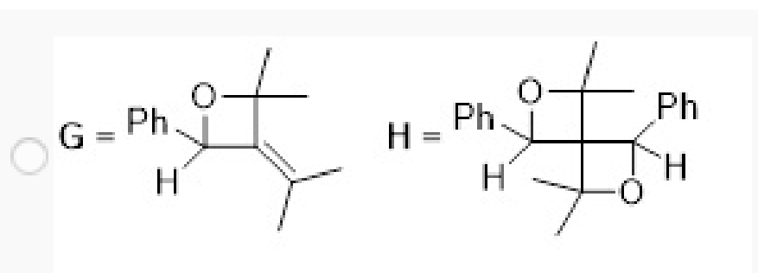
Accepted Answers:

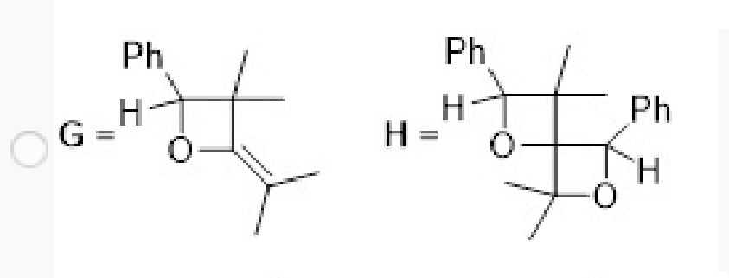


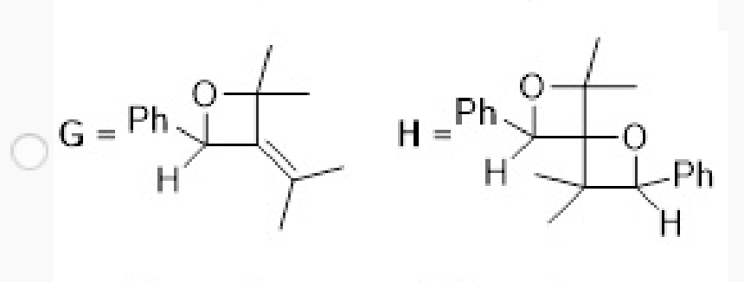


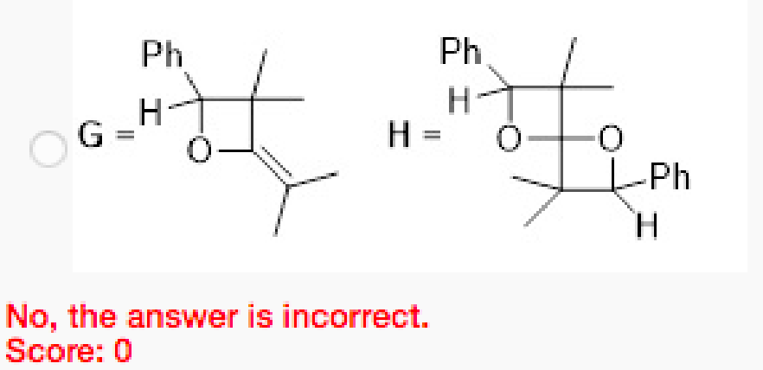
9) What are the major products G and H for the reaction below involving radicals? *1 point*



○ 

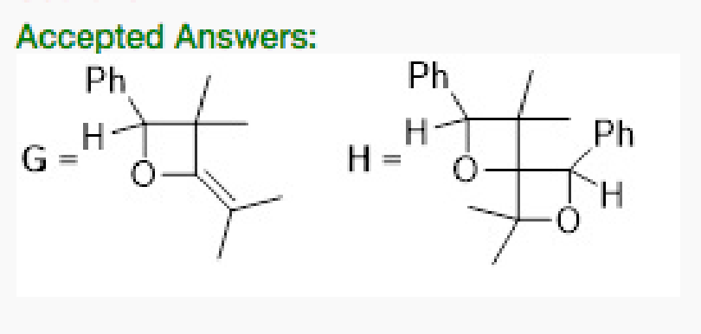
○ 

○ 

○ 

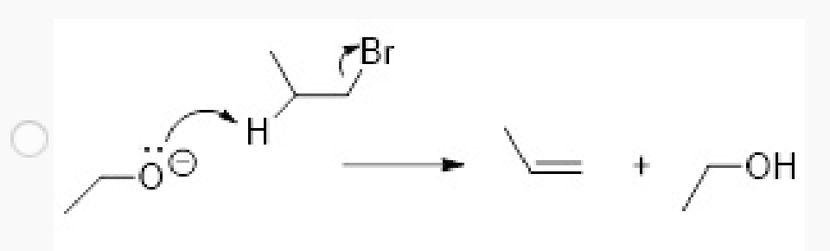
No, the answer is incorrect.
Score: 0

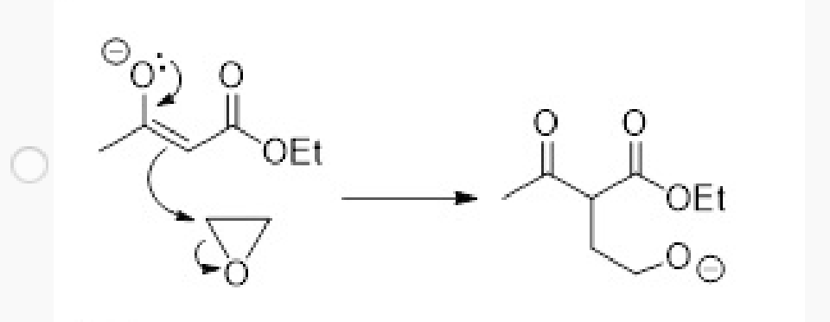
Accepted Answers:

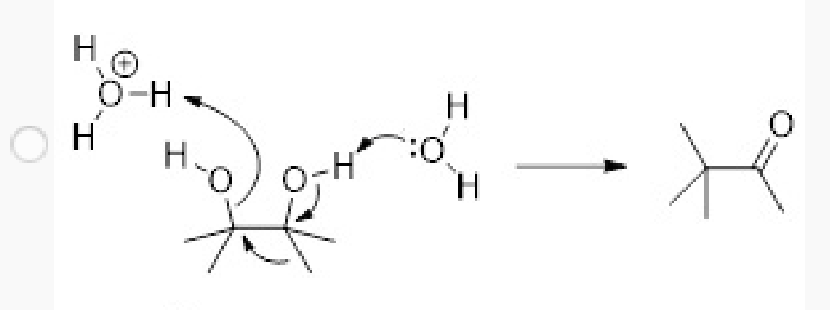


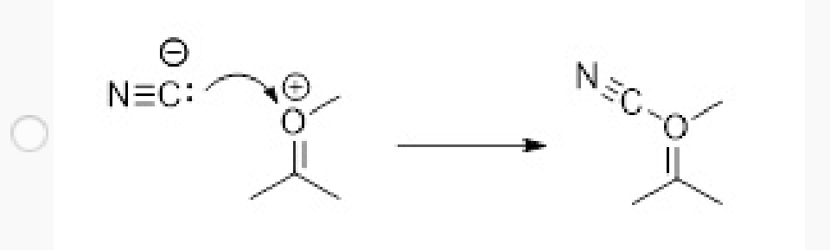
10)

Which of the following is an example of a proper arrow-pushing representation? *1 point*

○ 

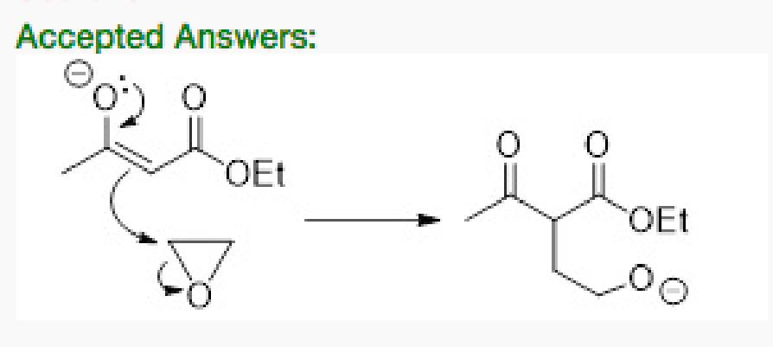
○ 

○ 

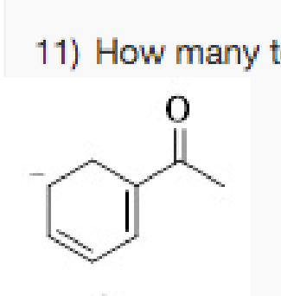
○ 

No, the answer is incorrect.
Score: 0

Accepted Answers:



11) How many total resonance structures can be drawn for the anion J? *1 point*



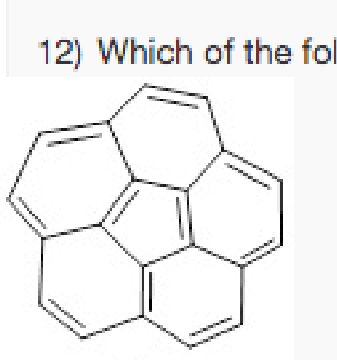
J

- ○ 2
- ○ 3
- ○ 4
- ○ 5

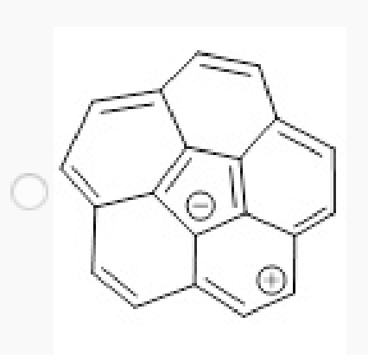
No, the answer is incorrect.
Score: 0

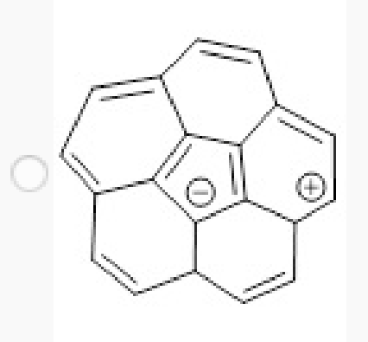
Accepted Answers:
4

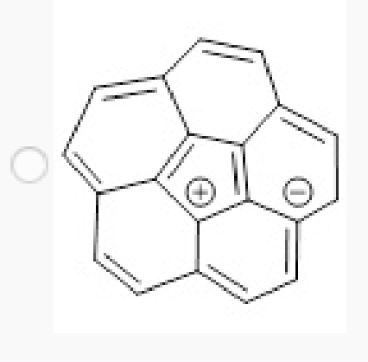
12) Which of the following is a stable polarized resonance structure for the molecule K? *1 point*



K

○ 

○ 

○ 

No, the answer is incorrect.
Score: 0

Accepted Answers: