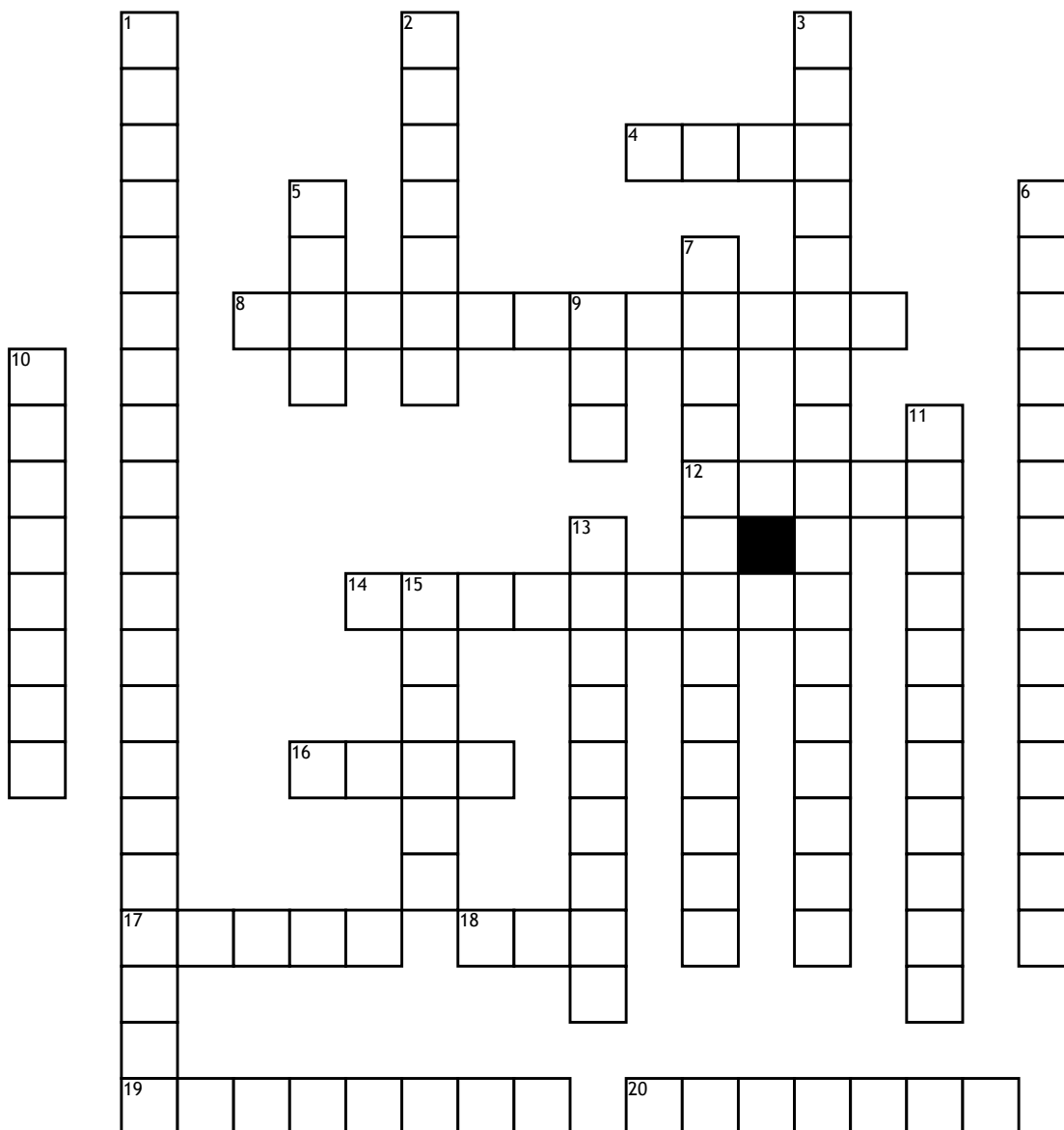


Name: _____

Date: _____

Aromatic Chemistry



Across

4. A nitro group is deactivating so it's _____ directing.
8. Which aromatic substitution reaction does pyridine undergo?
12. What is the 1,2-disubstituted benzene derivative called?
14. Which reaction occurs when benzene is treated with an acyl halide (or acid anhydride)?
16. If the hydrophobicity constant is positive, it is _____ hydrophobic than hydrogen.
17. Which position does electrophilic aromatic substitution occur on an indole?
18. What is the suffix for 5 membered heterocyclic rings?
19. The most powerful electron donor

20. A pyrrole reacts with a strong acid to form a _____.

Down

1. What mechanism occurs for the formation of tetrazole?
2. For aromaticity the rule $(4n+2)$ pi electrons needs to be followed. What is this rule called?
3. What is needed on the benzene ring for nucleophilic aromatic substitution to occur?
5. How many resonance forms is needed to make something para directing?
6. Pyridine can be formed from _____ + either hydroxylamine or ammonia.
7. What is formed when NO^+ reacts with an amine?

9. The pH where the solution contains the same amount of protonated, acidic form as its deprotonated, basic form

10. The weaker the base, the _____ the acidity of the conjugate acid.

11. What is the following definition for 'the overlap of two or more 2p orbitals in a cyclic or acyclic system allowing resonance to form'?

13. What is the name of the reaction where diazonium ion reacts with cuprous salts?

15. A molecule is called _____ if there are 4 different atoms attached to it.