QUIZ CHM-201A (9th Feb 2021)

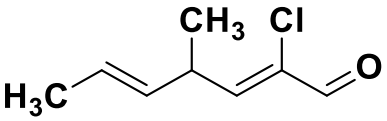
Total Marks: 20 **Time: 60 min**

Instructions:

1. Answer all the questions.

Name: Roll number:

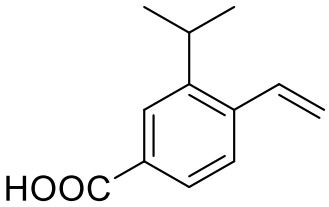
1. Chose the correct IUPAC name for the given compound. **(3 marks)**



a) 2−chloro 4−methyl 2,5−heptadienol b) 4−chloro 4−methyl 3,3'−heptadienal

c) 6−chloro 4−methyl 2,5−heptadienal d) 2−chloro 4−methyl 2,5−heptadienal

2. Chose the correct IUPAC name for the given compound. **(3 marks)**



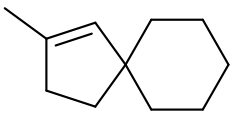
a) 5-isopropyl-4-vinylbenzoic acid

b) 3-isopropyl-4-vinylbenzoic acid

c) 4-isopropyl-5-vinylbenzoic acid

d) A & B

3. Chose the correct IUPAC name for the given compound. **(3 marks)**



a) 2-Methyl spiro [5.4] dec-1-ene

b) 2-Methyl spiro [4.5] dec-1-ene

c) 3-Methyl spiro [4.5] dec-2-ene

d) 3-Methyl spiro [5.4] dec-2-ene

4. Chose the correct IUPAC name for the given compound. **(3 marks)**

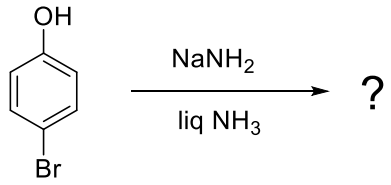
a) (E, Z)-6-bromo-4-methyl-3-nitrohept-2-enoic acid & ethyl (E, Z)-3-amino-6-bromo-4-methylhept-2-enoate

b) (Z, E)-6-bromo-4-methyl-3-nitrohept-2-enoic acid & ethyl (Z, E)-3-amino-6-bromo-4-methylhept-2-enoate

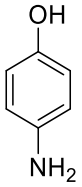
c) (E)-6-bromo-4-methyl-3-nitrohept-2-enoic acid & ethyl (E)-3-amino-6-bromo-4-methylhept-2-enoate

d) (Z)-6-bromo-4-methyl-3-nitrohept-2-enoic acid & ethyl (Z)-3-amino-6-bromo-4-methylhept-2-enoate

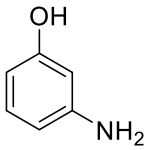
5. What is the correct product for the following given reaction. **(2 marks)**



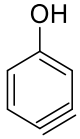
a.



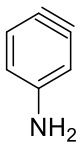
b.



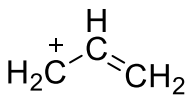
c.

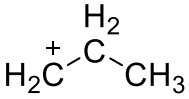


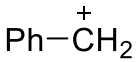
d.



6. What is the stability order for the given carbocation. **(2 marks)**


1

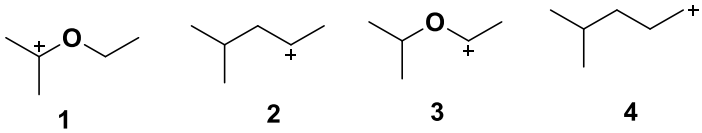

2


3

a) 1>3>2 b) 1>2>3

c) 3>1>2 d) 3>2>1

7. What is the stability order for the given carbocation. **(2 marks)**


1 2 3 4

A) 1>2>3>4 B) 1>3>2>4

C) 3>1>2>4 D) 3>2>1>4

8) The shape of carbocation and carbanion is? **(2 marks)**

a) Pyramidal and Trigonal planar
b) Trigonal planar and Pyramidal
c) Trigonal planar and Tetrahedral
d) Pyramidal and Tetrahedral