

Code No: RR210802

RR

Set No. 2

II B.Tech I Semester Examinations, November 2010

ORGANIC CHEMISTRY

Chemical Engineering

Time: 3 hours

Max Marks: 80

Answer any FIVE Questions
All Questions carry equal marks

- How pyridine can act as a stronger base than pyrrole?
 - How will you get isoquinoline? [8+8]
- Explain Waldon inversion with a suitable example.
 - How will you distinguish between enantiomers and diastereomers? [8+8]
- Describe the manufacture, properties and uses of Teflon. How is tetrafluoroethylene prepared?
 - Discuss the preparation, properties and uses of bakelite. [8+8]
- Suggest the synthesis of each of the following

(a)

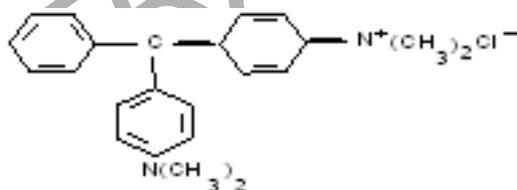


Figure 2a

From benzaldehyde and dimethyl aniline shown in figure 2a

(b)

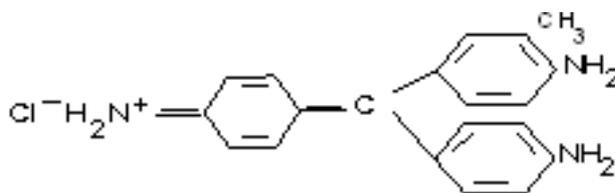


Figure 2b

From aniline, ortho and para toluidines shown in figure 2b

(c)

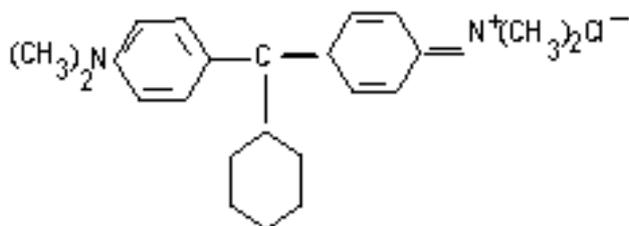


Figure 2c

From Michler's ketone and dimethyl aniline shown in figure 2c.

[6+5+5]

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5. Write a note on conformational analysis of cyclohexane. [16]
6. Show the reaction mechanism of aldol condensation and describe its uses. [16]
7. (a) Explain the difference between resonance and hyperconjugation effects.
(b) Differentiate the inductive and electromeric effects. [8+8]
8. (a) Describe the reaction between ethylene and H_2SO_4 followed by treatment with water.
(b) Write the reaction and give mechanism for the reaction of propylene with NBS. [8+8]

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Set No. 4

II B.Tech I Semester Examinations, November 2010

ORGANIC CHEMISTRY

Chemical Engineering

Time: 3 hours

Max Marks: 80

Answer any FIVE Questions
All Questions carry equal marks

- How pyridine can act as a stronger base than pyrrole?
 - How will you get isoquinoline? [8+8]
- Write a note on conformational analysis of cyclohexane. [16]
- Explain Waldon inversion with a suitable example.
 - How will you distinguish between enantiomers and diastereomers? [8+8]
- Describe the manufacture, properties and uses of Teflon. How is tetrafluoroethylene prepared?
 - Discuss the preparation, properties and uses of bakelite. [8+8]
- Explain the difference between resonance and hyperconjugation effects.
 - Differentiate the inductive and electromeric effects. [8+8]
- Describe the reaction between ethylene and H_2SO_4 followed by treatment with water.
 - Write the reaction and give mechanism for the reaction of propylene with NBS. [8+8]
- Show the reaction mechanism of aldol condensation and describe its uses. [16]
- Suggest the synthesis of each of the following

(a)

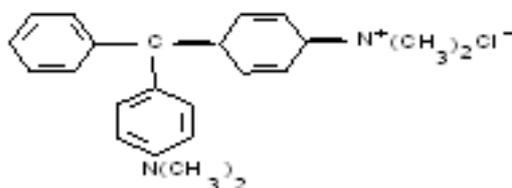


Figure 2a

From benzaldehyde and dimethyl aniline shown in figure 2a

(b)

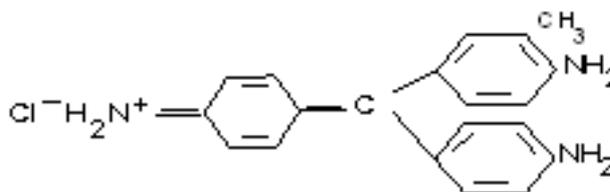


Figure 2b

From aniline, ortho and para toluidines shown in figure 2b

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(c)

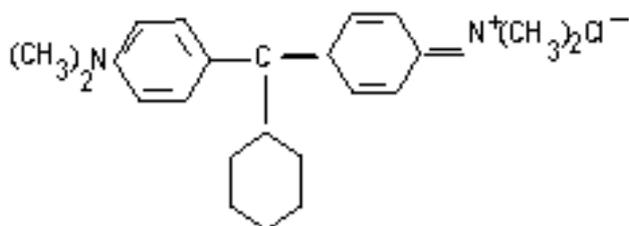


Figure 2c

From Michler's ketone and dimethyl aniline shown in figure 2c.

[6+5+5]

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Set No. 1

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ORGANIC CHEMISTRY

Chemical Engineering

Time: 3 hours

Max Marks: 80

Answer any FIVE Questions
All Questions carry equal marks

- How pyridine can act as a stronger base than pyrrole?
 - How will you get isoquinoline? [8+8]
- Suggest the synthesis of each of the following

(a)

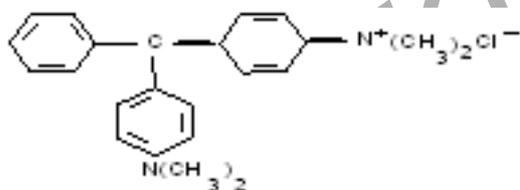


Figure 2a

From benzaldehyde and dimethyl aniline shown in figure 2a

(b)

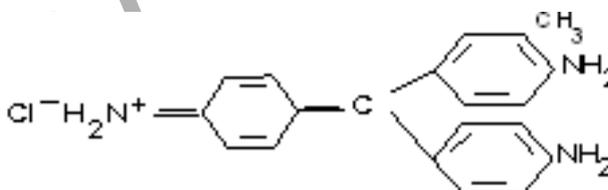


Figure 2b

From aniline, ortho and para toluidines shown in figure 2b

(c)

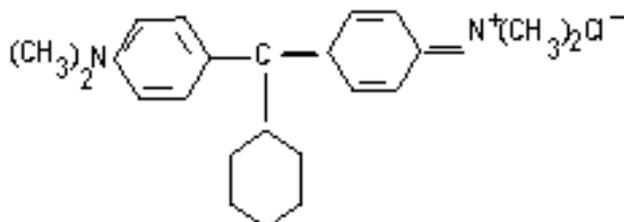


Figure 2c

From Michler's ketone and dimethyl aniline shown in figure 2c. [6+5+5]

- Explain Waldon inversion with a suitable example.
 - How will you distinguish between enantiomers and diastereomers? [8+8]
- Describe the manufacture, properties and uses of Teflon. How is tetrafluoroethylene prepared?

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- (b) Discuss the preparation, properties and uses of bakelite. [8+8]
5. Show the reaction mechanism of aldol condensation and describe its uses. [16]
6. (a) Describe the reaction between ethylene and H_2SO_4 followed by treatment with water.
- (b) Write the reaction and give mechanism for the reaction of propylene with NBS. [8+8]
7. (a) Explain the difference between resonance and hyperconjugation effects.
- (b) Differentiate the inductive and electromeric effects. [8+8]
8. Write a note on conformational analysis of cyclohexane. [16]

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Chemical Engineering

Time: 3 hours

Max Marks: 80

Answer any FIVE Questions
All Questions carry equal marks

- Describe the manufacture, properties and uses of Teflon. How is tetrafluoroethylene prepared?
 - Discuss the preparation, properties and uses of bakelite. [8+8]
- Suggest the synthesis of each of the following

(a)

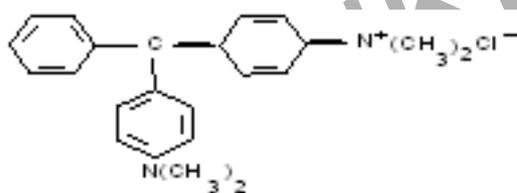


Figure 2a

From benzaldehyde and dimethyl aniline shown in figure 2a

(b)

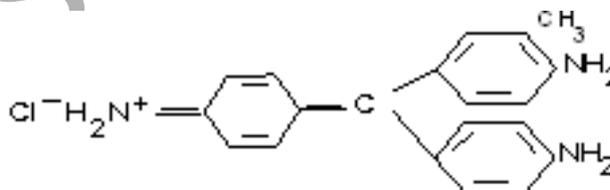


Figure 2b

From aniline, ortho and para toluidines shown in figure 2b

(c)

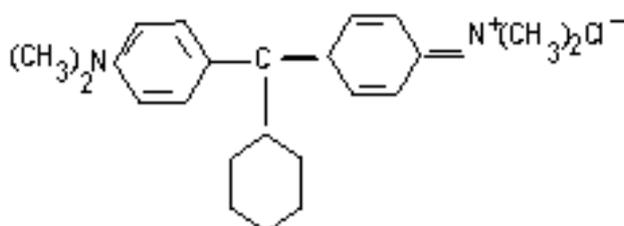


Figure 2c

From Michler's ketone and dimethyl aniline shown in figure 2c. [6+5+5]

- Describe the reaction between ethylene and H_2SO_4 followed by treatment with water.
 - Write the reaction and give mechanism for the reaction of propylene with NBS. [8+8]

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4. (a) Explain Waldon inversion with a suitable example.
(b) How will you distinguish between enantiomers and diastereomers? [8+8]
5. (a) Explain the difference between resonance and hyperconjugation effects.
(b) Differentiate the inductive and electromeric effects. [8+8]
6. (a) How pyridine can act as a stronger base than pyrrole?
(b) How will you get isoquinoline? [8+8]
7. Show the reaction mechanism of aldol condensation and describe its uses. [16]
8. Write a note on conformational analysis of cyclohexane. [16]

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