

[LB 804]

OCTOBER 2012

Sub. Code: 3804

**DOCTOR OF PHARMACY (PHARM. D) DEGREE EXAMINATION****FIRST YEAR****PAPER IV – PHARMACEUTICAL ORGANIC CHEMISTRY***Q.P. Code: 383804***Time: Three Hours****Maximum: 100 marks****Answer ALL questions in the same order.****I. Elaborate on :**

Pages (Max.)	Time (Max.)	Marks (Max.)
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1. Explain the mechanism of Nucleophilic aromatic substitution reactions, orientation and reactivity of benzene.

17	40 min.	20
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2. Give the reactions of alkenes.

17	40 min.	20
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**II. Write notes on :**

1. Phase transfer catalysis.

4	10 min.	6
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2. SN1 vs. SN<sub>2</sub>.

4	10 min.	6
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3. Write the preparation of alkyl halides.

4	10 min.	6
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4. Fries rearrangement.

4	10 min.	6
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5. Give the addition reactions of conjugated dienes.

4	10 min.	6
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6. Reformatsky reaction.

4	10 min.	6
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7. Explain peroxide effect.

4	10 min.	6
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8. 4n+2 rule.

4	10 min.	6
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9. Sandmeyer reaction.

4	10 min.	6
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10. Write the preparations of Carboxylic acids

4	10 min.	6
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