

<b>CORRECTION / NO-CORRECTION FILE</b>
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**QPCODE: 421006**

**Dated: 09-03-2026**

**Question No.7**

**Modified as "Give any two methods of synthesis of purines. Mention the medicinal importance of purine derivatives with examples."**

**Corrections/Modifications/Replacement of Questions if any shall be made available to all students. Take the print out of the Correction File in such cases and distribute to all students.**

(Sd/-)

**CONTROLLER OF EXAMINATIONS**

QP Code: 421006

Reg. No.....

**Fourth Semester B.Pharm Degree Supplementary Examinations  
March 2026**

**Pharmaceutical Organic Chemistry III**

**(2017 Scheme)**

**Time: 3 Hours**

**Max. Marks: 75**

- *Answer all questions to the point neatly and legibly • Do not leave any blank pages between answers • Indicate the question number correctly for the answer in the margin space*
- *Answer all parts of a single question together • Leave sufficient space between answers*
- *Draw diagrams wherever necessary*

**Essays**

**(2x10=20)**

1. Describe briefly about DL system of nomenclature of optical isomers with sequence rules.
2. Give the synthesis, chemical reactions and medicinal uses of pyridine and basicity of pyridine.

**Short Notes**

**(7x5=35)**

3. Explain partial and absolute asymmetric synthesis.
4. Discuss conformational isomerism in ethane.
5. Give the methods of preparation and any three reactions of thiophene.
6. Write a note on Schmidt rearrangement.
7. Give any two methods of synthesis and reactions of purines. Mention the medicinal importance of purine derivatives with examples.
8. Write the reaction and importance of NaBH<sub>4</sub> metal hydride reduction.
9. Compare the aromaticity and reactivity of pyrrole, furan and thiophene.

**Answer Briefly**

**(10x2=20)**

10. Define optical activity and meso compounds.
11. What is racemic modification.
12. Define atropisomerism.
13. Explain E and Z isomers with suitable examples.
14. Give structure of Quinoline, pyrazole, imidazole and oxazole.
15. Give any one synthesis of furan.
16. What is Claisen-schmidt condensation.
17. Explain Fischer – Indole synthesis.
18. Write about the synthetic importance of Birch reduction.
19. Give any two important chemical reactions of Quinoline.

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