



SHREE H. N. SHUKLA GROUP OF COLLEGES

(AFFILIATED TO SAURASHTRA UNIVERSITY & GTU)

2-Vaishali nagar,
Near amrapali railway crossing,
Raiya road, Rajkot- 360 001.
Ph.No.-(0281) 2440478, 2472590

3-Vaishali nagar, Near
amrapali railway crossing,
Raiya road, Rajkot- 360 001.
Ph.No.-(0281) 2224362

Behind marketing yard,
Near Lalpari lake, Between
Amargadh-Bhichri,
Rajkot- 360 002.
Ph.No. 90990 63150

M.Sc. Chemistry Semester III (CBSE)

C-303 Heterocyclic compounds

Question bank

**Prepared by,
Jay Majithiya**



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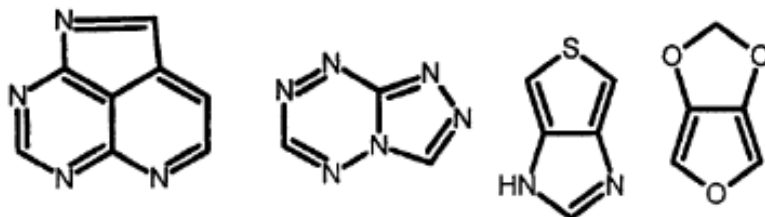
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Q. Each questions has 2 marks

- Write any two methods for the synthesis of Indolizine.
- Discuss any two synthesis of oxazole.
- Give the name of followings :



- Give any two synthesis of benzopyrans.
- Write any two methods for the preparation of Diazirine.
- Discuss the properties of Azetidine.
- Discuss any one synthesis of Thiopine.
- Give any one synthesis of Phenanthridine.
- Write the structure of followings :
 - Octahydropyrrolo[3,4-c]pyrrole
 - 4H-Pyrrolo[3,2,1-ij]quinoline
 - 2H-Pyrano[2,3-d]pyridazine
 - Furo[3,4-c]pyridine
- Give at least two methods for the synthesis of 4-pyrones.



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Q. Each question has three marks

- Give any three methods of synthesis for Pyrimidine.
- Explain Synthesis (any two) and chemical properties of Triazole.
- Discuss synthesis (any two) and chemical properties of Benzofuran.

Q. Each question has five marks

- Give resonating structure of Pyridazine and explain its chemical properties.
- Discuss the synthesis and chemical properties of Oxetane.
- Discuss (any two) methods for the synthesis of 1,4-Dithiane and Azepine.
- Discuss the synthesis (any two) and chemical properties of Thionaphthene.