BIRLA INSTITUTE OF TECHNOLOGY, MESRA, RANCHI (END-SEMESTER EXAMINATION)

CLASS: BPHARM BRANCH: PHARMACY	SEMESTER: IV SESSION: SP/2019
SUBJECT: BP401T PHARMACEUTICAL ORGANIC CHEMISTRY III	
TIME: 3.00 Hours	FULL MARK: 75
INSTRUCTIONS:	
1. The missing data, if any, may be assumed suitably.	
2. Before attempting the question paper, be sure that you have got the correct question	n paper.
3. Tables/Data hand book/Graph paper etc. to be supplied to the candidates in the exam	nination hall.
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- B. Write structure and use of IAA.
- C. Write structure and use of isoquinoline.
- D. Write the uses of Benzopyrans nucleus.
- E. Write medicinal use of pyrimidine nucleus.
- F. Give structure and numbering of acridine.
- G. Nicotinic acid has formula..... and is used as
- H. is an intermediate in Schmidt rearrangement of carboxylic acid.
- I. is the starting material in Beckmann rearrangement.
- J. What is xanthine?

PART-II Short Answers (Instruction: Answer seven out of nine questions)

(7 x 5 = 35 Marks)

- Q2. What is the importance of study of stereoisomers in the field of pharmacy?
- Q3. Distinguish between conformational and configurational isomers with examples.
- Q4. How you assign R & S configuration in compounds? Describe and explain sequence rule.
- Q5. What are geometrical isomers? Distinguish between Z & E isomers.
- Q6. Write short notes on asymmetric synthesis & its importance in pharmaceutical chemistry.
- Q7. What is Saytzeff rule? Explain.
- Q8. Give synthesis of purine containing nucleus.
- Q9. Give a short account of reactivity of furan.
- Q10. Discuss the basicity of pyrrole vs. pyridine and that of imidazole vs. Pyrrazole.

PART-III Long Answers (Instruction: Answer two out of three questions)

(2 x 10 = 20 marks)

- Write down the preparation of indole and benzopyrans compounds. Detailed out the reactions of pyridine. What are wolf Kishner and Clemenson's reduction. Q11.
- Q12.
- Q13.

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