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

CLASS: B.PHARM	SEMESTER: III
DKANCH: PHAKMACY	SESSION: MO/2018 SUBJECT: BP301T PHARMACEUTICAL ORGANIC CHEMISTRY II
TIME: 3.00 Hour	FULL MARK: 75
1. The missing data, if	any, may be assumed suitably.
2. Before attempting t	ne question paper, be sure that you have got the correct question paper.
3. Tables/Data hand bo	ok/Graph paper etc. to be supplied to the candidates in the examination hall.
questions.	consists of (05) Three parts, read the part wise instructions before attempting the
	PART-I
	Multiple Choice Questions (Instruction: Answer All)
Q1.	(10 x 2 = 20 marks)
A. Molecular form	Ila of benzene is
B. August Kekule p	roposed that carbon atom can join to one another to form a chain in
C. Solubility of phe	enols in water is due to
D Ester formation	in phonols takes place by
D. Ester formation	in phenots takes place by
E. IN Insects DDT C	pens
F. Benzoic acid ha	s the formula
G. Benzoic acid rea	acts with acid chlorides to form
H. Benzaldehyde r	eacts with ammonia in presence of Hydrogen and Nickel to yield
I. Aniline on react	ion with HCl yields
J. On oxidation na	phthalene gives
	PART-II
	Short Answers
	(Instruction: Answer seven out of nine questions) (7 x 5 = 35 marks)
Q2. Discuss the nitra	tion of benzene with equations and mechanism.
Q4. Explain in brief r	nalaria control by DDT.
Q5. Elaborate the str	ucture of the following:(i) p-nitrobenzoic acid (ii) phenylacetic acid (iii) benzoic acid
(iv) Benzyl amine	(v) Benzyl chloride
Q7. Originate the syr	thesis of an N-substituted sulfonamide and N-N disubstituted sulfonamide from an aliphatic
amine.	dition compounds of paphthalong
Q9. Create the struc	cures of (i)Cyclopropane (ii) Cyclobutane (iii) Cyclopentene (iv) Chlorocyclopropane
(v) 1.1 dimethyl	cvclopentane

Q10. Elaborate the preparation of alicyclic compounds with one example.

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

(2 x 10 = 20 marks)

- Q11. Define Baeyer's strain theory and prove the mistakes in the theory with suitable equations and diagrams.
  Q12. Elaborate about oils and fats with proper equations.
  Q13. Discuss synthesis of organic compounds using diazotization with proper equations.

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