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

CLASS: M.PHARM **SEMESTER : IInd**
BRANCH: PHARMACY **SESSION : SP/19**

SUBJECT: MPC202T ADVANCED ORGANIC CHEMISTRY II

TIME: **FULL MARKS: 75**

INSTRUCTIONS:
1. The question paper contains 7 questions each of 15 marks and total 105 marks.
2. Candidates may attempt any 5 questions maximum of 75 marks.
3. The missing data, if any, may be assumed suitably.
***4*. Before attempting the question paper, be sure that you have got the correct question paper.**
5. Tables/Data hand book/Graph paper etc. to be supplied to the candidates in the examination hall.

Q.1(a)	Describe the advantages and disadvantages of microwave assisted reactions	[7]
Q.1(b)	Classify microwave assisted reactions with one example from each class	[8]
Q.2(a)	Explain the following with equations (i)Isomerisation of alkenes (ikeri)Stercker reaction	[7]
Q.2(b)	Describe the instrumentation for ultrasonic assisted reactions	[8]
Q.3(a)	Elaborate conrotatory and disrotatory motions in ring opening reactions with suitable equations	[7]
Q.3(b)	Elaborate conrotatory and disrotatory motions in ring closing reactions with suitable equations	[8]
Q.4(a)	Define cycloaddition reaction with relevant equations.	[7]
Q.4(b)	Classify cycloaddition reactions with one equation from each class	[8]
Q.5(a)	Explain the advantages and disadvantages of homogenous reactions	[7]
Q.5(b)	Explain the advantages and disadvantages of heterogenous reactions	[8]
Q.6(a)	Elaborate the terms (i)Micro reactors (ii) Meso reactors in flow chemistry	[7]
Q.6(b)	Explain the key concepts of small scale flow technologies	[8]
Q.7(a)	Elaborate molecular dissymmetry with relevant diagrams.	[7]
Q.7(b)	Define resolution of a racemic mixture and explain the methods employed.	[8]

:::::24/04/2019 M:::::