

First Periodical Test, July- December, 2021

Class.....M.SC. I SEMESTER.....

Subject.....CHEMISTRY.....

Paper (with code).....CHEM 406 – Organic Chemistry

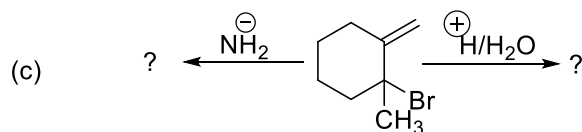
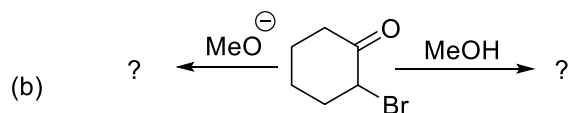
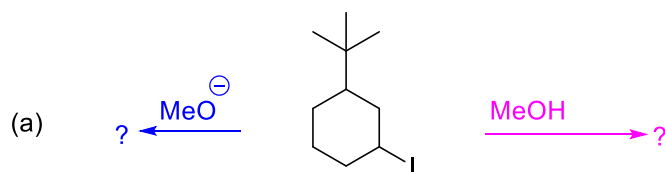
Max Marks : 10

No. of Students: 40

Note: Students are required to attempt **Three** questions. Question No. **1** is **compulsory**.

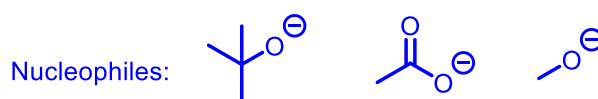
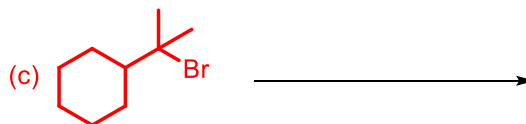
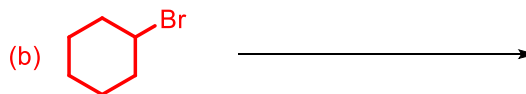
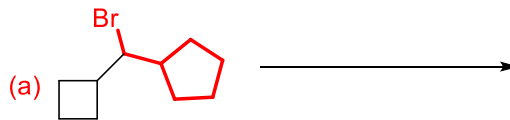
Q.1. Give the product and Mechanism of the following reaction:

[4]



Q.2. Give the mechanism of following reactions and guide the product formation with different nucleophiles.

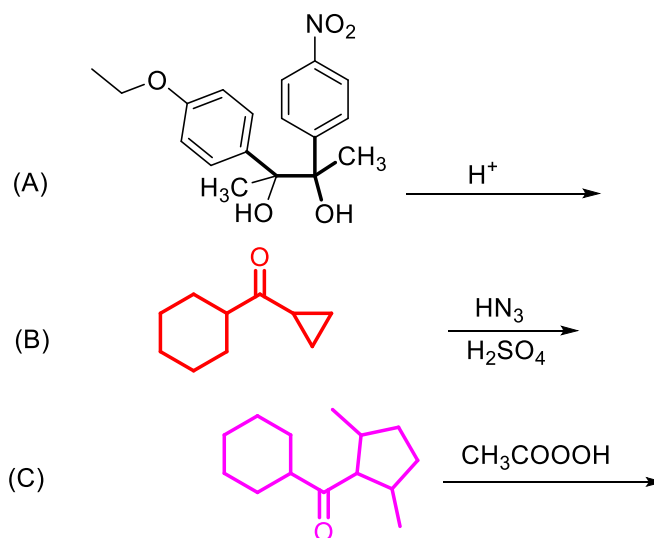
[3]



OR

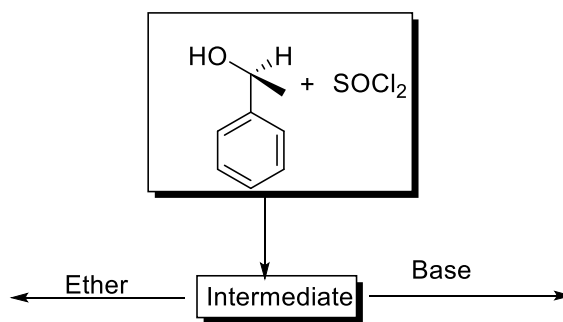
Q.3. Give the mechanism of following reactions.

[3]



Q.4. Give the mechanism of following reactions.

[3]



OR

Q.5. (a) Give the product formation in the following reactions with nucleophile.

[2]



(b) Give the energy profile diagram for SN1 and SN2 reaction with taking suitable examples. [1]