



SECTION - C

13. What is an elimination reaction? Explain with 2 examples.
14. Write benzyne mechanism with one example.
15. Write a reaction using sodium borohydride as a reducing agent.
16. Give a note on Sandmeyer's reaction.
17. Write the chemical structure of piperine and how it is synthesized?
18. Which is more basic amide or amine? Why? **(Weightage 4x2 = 8)**

SECTION - D

19. a) Explain the use of Wilkinson catalyst in organic reaction.
b) Write a note on hydroboration reaction.
20. a) Write the mechanism of Beckmann rearrangement.
b) How are Friedel-Crafts acylation and alkylation different?
21. a) Describe the conversion of alcohols into aldehydes.
b) Explain nucleophilic substitution reaction in haloarenes. **(Weightage 2x4 = 8)**



Reg. No. :

Name :

VI Semester B.Sc. Degree (CCSS-Reg./Supple./Improv.)
Examination, May 2016
Core Course in Chemistry
6B15CHE (D) : SYNTHETIC ORGANIC CHEMISTRY (Elective)

Time : 3 Hours

Max. Weightage : 25

- Instructions :**
- 1) Section A : Answer **all** the questions. **Each** question carries a Weightage of 1.
 - 2) Section B : Answer **any 5** questions. **Each** question carries a Weightage of 1.
 - 3) Section C : Answer **any four** questions. **Each** question carries a Weightage of 2.
 - 4) Section D : Answer **any two** questions. **Each** question carries a Weightage of 4.

SECTION - A

1. i) Homolytic fission of C-C bond leads to the formation of
- | | |
|-----------------|---------------------|
| a) Carbocation | b) Carbanion |
| c) Free radical | d) Neutral molecule |
- ii) Nitrogen analog of carbene is called
- | | |
|-------------|-------------------|
| a) Nitrene | b) Nitro compound |
| c) Nitrites | d) None of these |
- iii) Tertiary butyl carbonium ion is stabilized by
- | | |
|-----------------------|------------------|
| i) hyper conjugation | b) i and iii |
| ii) resonance | c) i, ii and iii |
| iii) inductive effect | |
| a) i and ii | |
| c) ii and iii | |

