

Navrachana University  
 School of Liberal Studies and Education, B.Sc.  
 End-Semester Examination November 2017  
 Second Year, Semester III  
 Carbon and its compounds, CH 201

Date: 20/11/2017

Time: 3:30 – 5:30 PM

Marks: 40

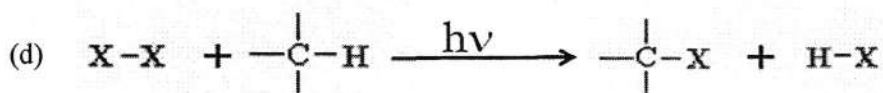
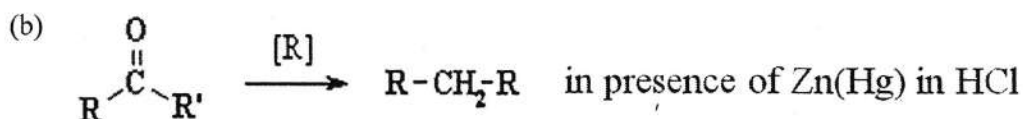
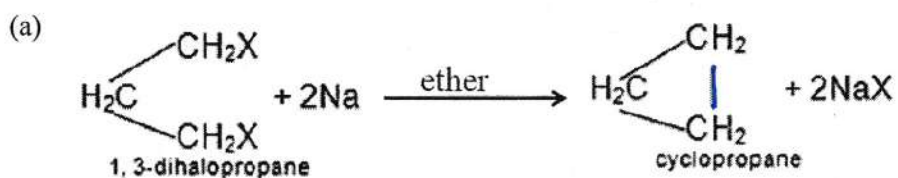
**Instructions:**

- All Sections are compulsory.
- Write each answer on a new page and clearly indicate question number.
- This question paper contains THREE Pages.

**Section A**

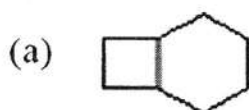
1. State name of the reaction.

[4 × 1 = 4 marks]



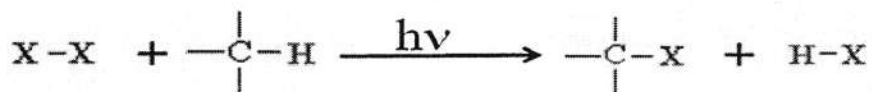
2. Write down the structural formula of the followings

[4 × 0.5 = 2 marks]





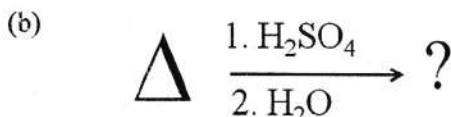
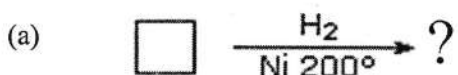
3. Draw the mechanism of the following. [2 marks]



Or

What is Sabatier and Senderen's method, give one suitable example.

4. What product will be obtained in the following reactions? [2 × 1 = 2 marks]



1. Write a short note on the following. [4 marks]

(a) petroleum refining

or

(b) Bayer strain theory

### Section B

1. Specify reagents & write overall reaction for converting 3-ethyl-2-pentene to each of the following:- [6 × 2 = 12 marks]

- (a) 2,3-Dibromo-3-ethylpentane
- (b) 3-Chloro-3-ethylpentane
- (c) 2-Bromo-3-ethylpentane
- (d) 3-Ethyl-3-pentanol
- (e) 3-Ethyl-2-pentanol
- (f) 3-Ethylpentane

2. Answer any **THREE** questions in brief: - [3 × 2 = 6 marks]

(a) "Acetylene is a stronger acid than ammonia, but weaker acid than water". Explain this statement.