Seat No:__

Enrollment No:___

PARUL UNIVERSITY

FACULTY OF APPLIED SCIENCE **B.Sc. Summer 2017-18 Examination**

Semester: 3 Date: 22/05/2018

Subject Code: 11100201 Time: 10:30AM TO 01:00PM

Subject Name: Chemistry-III Total Marks: 60

Instructions:

- 1. All questions are compulsory.
- 2. Figures to the right indicate full marks.
- 3. Make suitable assumptions wherever necessary.

(b) Explain aromaticity in Anthracene.

(c) Convert Benzene to cyclohexane.

4. Start new question on new page.	
Q.1. A) Answer the following questions (Each of 04 marks)	(08)
(a) Write electronic configuration of s block elements.	
(b) Explain how XeF ₂ is prepared in laboratory.	
Q.1. B)Answer the following questions (Any two)	
(a) Explain Dehydration of alcohol with 3 step mechanism.	(04)
(b) Write electronic configuration of noble gas.	(04)
(c) Write classification of Dienes with suitable example of each.	(04)
Q.2. A)Answer the following questions.	
(a) State Saytzeff Rule. Give reaction based on it.	(04)
(b) State Markovnikov's Rule. Give one reaction of it.	(04)
Q.2. B)Answer the following questions (Any two)	
(a) Write structural formula for (Each of 01 marks)	(03)
1. Penta-1,3-diene	
2. 1,3-dibromopentane	
3. Cyclohexene	
(b) Write hydrogenation of XeF ₂	(03)
(c) Explain structure of Benzene.	(03)
Q.3. A)Answer the following questions (Each of 04 marks)	(08)
(a) Write reaction of Friedal-crafts alkylation and acylation.	
(b) Write nitration of Benzene.	
Q.3. B)Answer the following questions (Any two)	
(a) Convert: Benzene to Benzene sulfonic acid.	(04)
(b) What is full form of TNT? Write its structure and mention its use?	(04)
(c) Explain Diels-Alder reaction giving suitable reaction.	(04)
Q.4. A)Answer the following questions.	
(a) What is Grignard reagent? What do you get when water is added to Grignard reagent?	(04)
(b) What is peroxide effect? Write reaction showing this effect?	(04)
Q.4. B)Answer the following questions (Any two)	
(a) Write structure of o-, m- and p- xylene.	(03)

(03)

(03)