Name of Assistant/Associate Professor: Ms. kusum

Class & Section: B. Sc III, N.M., medical

Chemistry lesson Plan: 17 week (From Jan 2018 to April 2018)

Week 1

Chapter 1 Organometallic Chemistry

Week 1, Day 1, Date - 01/01/2018

- 1.1 Definition
- 1.2 Nomenclature and classification of Organo metallic compounds

Week 1, Day 2, Date - 02/01/2018

1.3 Preparation , properties and bonding of alkyls of lithium

Week 2, Day 1, Date - 08/01/2018

1.4 Preparation, properties and bonding of alkyls of Aluminium

Week 2, Day 2, Date - 09/01/2018

1.5 Preparation, properties and bonding of alkyls of Mercury

Week 3, Day 1, Date - 15/01/2018

- 1.6 Preparation, properties and bonding of alkyls of Sn
- 1.7 Nature of bonding in Metal Carbonyls

Week 3, Day 2, Date - 16/01/2018

- 1.8 A brief account of metal Ethylenic complexes
- 1.9 Mononuclear Carbonyls

Week 4

Chapter 2 Acid & Bases , HSAB Concept

Week 4, Day 2, Date - 23/01/2018

- 2.1 Arrhenius concept of Acid & Bases
- 2.2 Advantages & Limitations of Arrhenius concept

Week 5, Day 1, Date - 29/01/2018

- 2.3 Bronsted Lowry concept of Acid and Bases
- 2.4 Lux flood concept of Acid and Bases

Week 5, Day 2, Date - 30/01/2018

- 2.5 Solvent system concept of Acid and Bases
- 2.6 Lewis system concept of Acid and Bases

Week 6, Day 1, Date - 05/02/2018

2.7 Relative strength of Acid and Bases

2.8 Concept of Hard and soft Acids and Bases

Week 7 Problems from chapter first

Week 7, Day 1, Date - 12/02/2018

Problems from chapter 1

Week 8 Problems from chapter 2 and test of chapter 2

Day 1, Date - 19/02/2018

Problems from chapter 2

Week 8, Day 2, Date - 20/02/2018

Test of chapter 2

Week 9 Chapter 3 Bio Inorganic Chemistry

Week 9, Day 1, Date - 26/02/2018

3.1 Essential and Trace elements in biological processes

3.2 Metallopophyrins with special reference to haemoglobin and myoglobin

Week 9, Day 2, Date - 27/02/2018

3.3 Myoglobin and Haemoglobin functions

3.4 Carbon dioxide transport and Bohr effect

Week 10, Day 1, Date - 05/03/2018

3.5 Biological role of alkali & alkalis earth metals lons with special reference to Ca2+

Week 10, Day 2, Date - 06/03/2018

3.6 Nitrogen Fixation Metalloproteins

Week 11, Problems of Chapter - 3

Week 11, Day 1, Date - 12/03/2018

Problems of Chapter-3

Week 11, Day 2, Date - 13/03/2018

Assignment I

Week 12, Chapter -4

Silicons & Phosphazenes

Week 12 Day 1, Date - 19/03/2018

4.1 Silicons as an examble of Inorganic polymers

Week 12, Day 2, Date - 20/03/2018

4.2 Silicons fluids & oils, silicons elastoma

Week 13, Day 1, Date - 26/03/2018

4.3 Silicon Resins, Polysiloxane copolymers

Week 13, Day 2, Date - 27/03/2018

4.4 Introduction to Phosphazene0,s method of preparation of phosphazenes

Week 14, Day 1, Date - 02/04/2018

4.5 Structure and bonding in Phosphazenes

Week 14, Day 2, Date - 03/04/2018

4.6 Bonding in Triphosphazenes

4.7 Uses of Phosphazenes

Week 15, Day 1, Date - 09/04/2018

Assignment - II

Week 15, Day 2, Date - 10/04/2018

Problems from Chapter 4

Week 16, Day 1, Date - 16/04/2018

Revision and Practical

Week 16, Day 2, Date - 17/04/2018

Revision and Practical

Week 17, Day 1, Date - 23/04/2018

Revision and Practical

Week 17, Day 2, Date - 24/04/2018

Name of Assistant/Associate Professor: Mrs. Manju

Class & Section: B. Sc 1 N.M., and medical

Chemistry lesson Plan: 17 week (From Jan 2018 to April 2018)

Week 1

Chapter 1 Alkenes

Week 1, Day 3, Date - 03/01/2018

1.3 Definition

1.4 Nomenclature of alkenes

Week 1, Day 4, Date - 04/01/2018

1.3 Preparation , properties of alkenes

Week 2, Day 3, Date - 10/01/2018

1.4 Preparation , properties and stability of alkenes

Week 2, Day 4, Date - 11/01/2018

0 revision

1.5 chemical reaction of alkene

Week 3, Day 4, Date - 18/01/2018

0 aromaticity

Week 4

Heckle rule

Week 4, Day 4, Date - 25/01/2018

0 annulenes

Week 5, Day 4, Date - 01/02/2018

0 aromatic anti aromatic non aromatic compounds

Week 6, Day 3, Date - 07/02/2018

0 revision

0 orientatation effect

Week 6, Day 4, Date - 08/02/2018

0 activating and deactivating groups

Week 7 Problems from chapter first

Week 7, Day 3, Date - 14/02/2018

Problems from chapter 1 Week 7 Problems from chapter 2 and test of chapter 2 Day4, Date - 15/02/2018 Problems from chapter 2 Week 8, Day 3, Date - 21/02/2018 Test of chapter 2 Week 8 Chapter 3dienes Week 8, Day 4, Date - 22/02/2018 3.1 classification of dienes, alkynes Week 10, Day 3, Date - 07/03/2018 structure of but a dienes Week 10, Day 4, Date - 08/03/2018 0 methods of preparation of butadines and alkynes Week 11, Day 3, Date - 14/03/2018 properties of dienes and alkynes Week 11, Problems of Chapter - 3 Week 11, Day 4, Date - 15/03/2018 Problems of Chapter-3 Week 12, Day 3, Date - 21/03/2018 Assignment I Week 12, Chapter -4 Alkyl halide and aryl halide Week 12 Day 4, Date - 22/03/2018 0 classification Week 13, Day 3, Date - 28/03/2018 0 method of formation Week 14, Day 3, Date - 04/04/2018 0 physical properties Week 14, Day 4, Date - 05/04/2018 0 chemical properties Week 15, Day 3, Date - 11/04/2018 0 mechanism and stereochemistry of nucleophilic substition reaction Week 15, Day 4, Date - 12/04/2018 0 methods of formation of aryl halide Week 16, Day 4, Date - 19/04/2018 0 physical and chemical properties Week 17, Day 3, Date - 25/04/2018

Problems from Chapter 4

Week 17, Day 4, Date - 26/04/2018

Name of Assistant/Associate Professor: kusum

Class & Section: B. Sc III, N.M., and medical

Chemistry lesson Plan: 17 week (From Jan 2018 to April 2018)

Week 1

Chapter 1 Organometallic Chemistry

Week 1, Day 5, Date - 05/01/2018

- 1.5 Definition
- 1.6 Nomenclature and classification of Organo metallic compounds

Week 1, Day 6, Date - 06/01/2018

1.3 Preparation , properties and bonding of alkyls of lithium

Week 2, Day 5, Date - 12/01/2018

1.4 Preparation , properties and bonding of alkyls of Aluminium

Week 2, Day 6, Date - 13/01/2018

1.5 Preparation, properties and bonding of alkyls of Mercury

Week 3, Day 5, Date - 19/01/2018

1.6 Preparation, properties and bonding of alkyls of Sn

1.7 Nature of bonding in Metal Carbonyls

Week 3, Day 6, Date - 20/01/2018

1.8 A brief account of metal Ethylenic complexes

1.9 Mononuclear Carbonyls

Week 4

Chapter 2 Acid & Bases , HSAB Concept

Week 4, Day 6, Date - 27/01/2018

2.1 Arrhenius concept of Acid & Bases

2.2 Advantages & Limitations of Arrhenius concept

Week 5, Day 5, Date - 02/02/2018

2.3 Bronsted Lowry concept of Acid and Bases

2.4 Lux - flood concept of Acid and Bases

Week 5, Day 6, Date - 03/02/2018

2.5 Solvent system concept of Acid and Bases

2.6 Lewis system concept of Acid and Bases

Week 6, Day 5, Date - 09/02/2018

2.7 Relative strength of Acid and Bases

2.8 Concept of Hard and soft Acids and Bases

Week 7 Problems from chapter first

Week 7, Day 5, Date - 16/02/2018

Problems from chapter 1

Week 7 Problems from chapter 2 and test of chapter 2

Day 6, Date - 17/02/2018

Problems from chapter 2

Week 8, Day 5, Date - 23/02/2018

Test of chapter 2

Week 8 Chapter 3 Bio Inorganic Chemistry

Week 8, Day 6, Date - 24/02/2018

- 3.1 Essential and Trace elements in biological processes
- 3.2 Metallopophyrins with special reference to haemoglobin and myoglobin

Week 10, Day 5, Date - 09/03/2018

3.3 Myoglobin and Haemoglobin functions

3.4 Carbon dioxide transport and Bohr effect

Week 10, Day 6, Date - 10/03/2018

3.5 Biological role of alkali & alkalis earth metals lons with special reference to Ca2+

Week 11, Day 5, Date - 16/03/2018

3.6 Nitrogen Fixation Metalloproteins

Week 11, Problems of Chapter - 3

Week 11, Day 6, Date - 17/03/2018

Problems of Chapter-3

Week 12, Day 6, Date - 24/03/2018

Assignment I

Week 13, Chapter -4

Silicons & Phosphazenes

Week 13 Day 5, Date - 30/03/2018

4.1 Silicons as an examble of Inorganic polymers

Week 13, Day 6, Date - 31/03/2018

4.2 Silicons fluids & oils , silicons elastoma

Week 14, Day 5, Date - 06/04/2018

4.3 Silicon Resins , Polysiloxane copolymers

Week 15, Day 5, Date - 13/04/2018

4.5 Structure and bonding in Phosphazenes

Week 16, Day 5, Date - 20/04/2018

4.6 Bonding in Triphosphazenes

4.7 Uses of Phosphazenes

Week 16, Day 6, Date - 21/04/2018

Assignment - II

Week 17, Day 5, Date - 27/04/2018

Problems from Chapter 4

Week 17, Day 6, Date - 28/04/2018

Name of Assistant/Associate Professor: Mrs. manju

Class and Group No.: B.Sc III, medical

Chemistry Practical Lesson Plan: 17 Week (From January 2018 to April 2018)

Week 1,Day 1, Date:01/01/2018

o To Determine Strength of Acid Using Strong Base using pH-meter

Week 1, Day 2, Date: 02/01/2018

To Determine Strength of Acid Using Strong Base using pH-meter

Week 2,Day 1,Date:08/01/2018

o To Determine the Specific Rotation of Optically Active Compound

Week 2, Day 2, Date:09/01/2018

o To Determine the Specific Rotation of Optically Active Compound

Week 3, Day 1, Date: 15/01/2018

 To Determine molecular Weight by of Non-Volatile Solute By Rast Method

Week 3, Day 2, Date:16/01/2018

 To Determine molecular Weight by of Non-Volatile Solute By Rast Method

Week 4, Day 2, Date: 23/01/2018

 To Determine Strength of Ferrous ammonium Sulphate Solution Potentiometrically

Week 5, Day 1, Date: 29/01/2018

 To Determine Strength of Ferrous ammonium Sulphate Solution Potentiometrically

Week 5, Day 2, Date: 30/01/2018

o To Prepare p-Bromoaniline from p-bromoacetanilide

Week 6, Day 1, Date: 05/02/2018

Separation of Mixture of Colored Organic Compound using T.L.C

Week 6, Day 2, Date: 06/02/2018

Separation of Mixture of Colored Organic Compound using T.L.C

Week 7, Day 1, Date: 12/02/2018

Qualitative Analysis of Given Mixture A Containing Acid Radicals

Week 8, Day 1, Date: 19/02/2018

Qualitative Analysis of Given Mixture A Containing Acid Radicals

Week 8, Day 2, Date: 20/02/2018

Qualitative Analysis of Given Mixture B Containing Acid Radicals

Week 9, Day 1, Date: 26/02/2018

Qualitative Analysis of Given Mixture B Containing Acid Radicals

Week 9, Day 2, Date: 27/02/2018

Qualitative Analysis of Given Mixture C Containing Basic Radicals

Week 10, Day 1, Date: 05/03/2018

o Qualitative Analysis of Given Mixture C Containing Basic Radicals

Week 10,Day 2,Date:06/03/2018

Qualitative Analysis of Given Mixture D Containing Basic Radicals

Week 11, Day 1, Date: 12/03/2018

Qualitative Analysis of Given Mixture D Containing Basic Radicals

Week 11, Day 2, Date: 13/03/2018

Qualitative Analysis of Given Mixture E Containing Basic Radicals

Week 12, Day 1, Date: 19/03/2018

Qualitative Analysis of Given Mixture E Containing Basic Radicals

Week 12, Day 2, Date: 20/03/2018

 Qualitative Analysis of Given Mixture F Containing Four Radicals(Acids & Basic)

Week 13, Day 1, Date: 26/03/2018

 Qualitative Analysis of Given Mixture F Containing Four Radicals(Acid & Basic)

Week 13, Day 2, Date: 27/03/2018

 Qualitative Analysis of Given Mixture G Containing Four Radicals(Acid & Basic)

Week 14, Day 1, Date: 02/04/2018

 Qualitative Analysis of Given Mixture G Containing Four Radicals(Acid & Basic)

Week 14, Day 2, Date: 03/04/2018

 Qualitative Analysis of Given Mixture H Containing Four Radicals(Acid & Basic)

Week 15, Day 1, Date: 09/04/2018

 Qualitative Analysis of Given Mixture I Containing Four Radicals(Acid & Basic)

Week 15, Day 2, Date: 10/04/2018

 Qualitative Analysis of Given Mixture I Containing Four Radicals(Acid & Basic)

Week 16, Day 1, Date: 16/04/2018

Revision and Practicals

Week 16, Day 2, Date: 17/04/2018

Revision and Practicals

Week 17, Day 1, Date: 23/04/2018

Revision and Practicals

Week 17, Day 2, Date: 24/04/2018

Name of Assistant/Associate Professor: Mrs. Monika Jaglan

Class and section: B.Sc. -2nd (Group -C) Lab no- 20

Chemistry Lesson Plan: 17 Week (From January 2018 to April 2018)

Week 1,Day 3, Date:03/01/2018

o Determine the constant of hydrolysis of CH₃COOC₂H₅

Week 2,Day 3,Date:10/01/2018

o To Study the Distribution of Iodine Between CCl₄ and water

Week 3, Day 3, Date: 17/01/2018

o Quantitative Estimation of Cu²⁺ as Copper thiocyanate

Week 6, Day 3, Date: 07/02/2018

o Quantitative Estimation of Ni²⁺ as Nickel dimethylglyoxime

Week 7, Day 3, Date: 14/02/2018

 Systematic Identification and Melting Point Determination of Given Compound A

Week 8, Day 3, Date: 21/02/2018

 Systematic Identification and Melting Point Determination of Given Compound B

Week 10, Day 3, Date: 07/03/2018

 Systematic Identification and Melting Point Determination of Given Compound C

Week 11, Day 3, Date: 14/03/2018

 Systematic Identification and Melting Point Determination of Given Compound D

Week 12, Day 3, Date: 21/03/2018

 Systematic Identification and Melting Point Determination of Given Compound E

Week 13, Day 3, Date: 28/03/2018

 Systematic Identification and Melting Point Determination of Given Compound F

Week 14, Day 3, Date: 04/04/2018

 Systematic Identification and Melting Point Determination of Given Compound G

Week 15, Day 3, Date: 11/04/2018

 Systematic Identification and Melting Point Determination of Given Compound H

Week 17, Day 3, Date: 25/04/2018

Name of Assistant/Associate Professor: Mrs. Monika Jaglan

Class and section: B.Sc. -2nd (Group -D) Lab no- 19

Chemistry Lesson Plan: 17 Week (From January 2018 to April 2018)

Week 1, Day 4, Date: 04/01/2018

o Determine the constant of hydrolysis of CH₃COOC₂H₅

Week 2, Day 4, Date:11/01/2018

o To Study the Distribution of Iodine Between CCl₄ and water

Week 3, Day 4, Date: 18/01/2018

Quantitative Estimation of Cu²⁺ as Copper thiocyanate

Week 4, Day 4, Date: 25/01/2018

o Quantitative Estimation of Ni²⁺ as Nickel dimethylglyoxime

Week 5, Day 4, Date: 01/02/2018

Quantitative Estimation of Ni²⁺ as Nickel dimethylglyoxime

Week 6, Day 4, Date: 08/02/2018

 Systematic Identification and Melting Point Determination of Given Compound A

Week 7, Day 4, Date: 15/02/2018

 Systematic Identification and Melting Point Determination of Given Compound B

Week 8, Day 4, Date: 22/02/2018

 Systematic Identification and Melting Point Determination of Given Compound C

Week 10, Day 4, Date: 08/03/2018

 Systematic Identification and Melting Point Determination of Given Compound D

Week 11, Day 4, Date: 15/03/2018

 Systematic Identification and Melting Point Determination of Given Compound E

Week 12, Day 4, Date: 22/03/2018

 Systematic Identification and Melting Point Determination of Given Compound F

Week 14, Day 4, Date: 05/04/2018

 Systematic Identification and Melting Point Determination of Given Compound G

Week 15, Day 4, Date: 12/04/2018

 Systematic Identification and Melting Point Determination of Given Compound H

Week 16, Day 4, Date: 19/04/2018

Revision and Practical

Week 17, Day 4, Date: 26/04/2018

Name of Assistant/Associate Professor: Mrs. Monika Jaglan

Class and section: B.Sc.-3rd (GROUP –D), LAB NO-22

Chemistry Lesson Plan: 17 Week (From January 2018 to April 2018)

Week 1, Day 5, Date: 05/01/2018

o To Determine Strength of Acid Using Strong Base using pH-meter

Week 1, Day 6, Date: 06/01/2018

o To Determine Strength of Acid Using Strong Base using pH-meter

Week 2, Day 5, Date: 12/01/2018

o To Determine the Specific Rotation of Optically Active Compound

Week 2, Day 6, Date: 13/01/2018

o To Determine the Specific Rotation of Optically Active Compound

Week 3, Day 5, Date:19/01/2018

 To Determine molecular Weight by of Non-Volatile Solute By Rast Method

Week 3, Day 6, Date: 20/01/2018

 To Determine molecular Weight by of Non-Volatile Solute By Rast Method

Week 4, Day 6, Date: 27/01/2018

 To Determine Strength of Ferrous ammonium Sulphate Solution Potentiometrically

Week 5, Day 5, Date: 02/02/2018

 To Determine Strength of Ferrous ammonium Sulphate Solution Potentiometrically

Week 5, Day 6, Date: 03/02/2018

To Prepare p-Bromoaniline from p-bromoacetanilide

Week 6, Day 5, Date: 09/02/2018

Separation of Mixture of Colored Organic Compound using T.L.C

Week 7, Day 5, Date: 16/02/2018

Separation of Mixture of Colored Organic Compound using T.L.C

Week 7, Day 6, Date: 17/02/2018

Qualitative Analysis of Given Mixture A Containing Acid Radicals

Week 8, Day 5, Date: 23/02/2018

Qualitative Analysis of Given Mixture A Containing Acid Radicals

Week 8, Day 6, Date: 24/02/2018

Qualitative Analysis of Given Mixture B Containing Acid Radicals

Week 10, Day 5, Date: 09/03/2018

o Qualitative Analysis of Given Mixture B Containing Acid Radicals

Week 10, Day 6, Date: 10/03/2018

o Qualitative Analysis of Given Mixture C Containing Basic Radicals

Week 11,Day 5,Date:16/03/2018

o Qualitative Analysis of Given Mixture C Containing Basic Radicals

Week 11, Day 6, Date: 17/03/2018

Qualitative Analysis of Given Mixture D Containing Basic Radicals

Week 12, Day 6, Date: 24/03/2018

Qualitative Analysis of Given Mixture D Containing Basic Radicals

Week 13, Day 5, Date: 30/03/2018

 Qualitative Analysis of Given Mixture E Containing Four Radicals(Acids & Basic)

Week 13, Day 6, Date: 31/03/2018

Qualitative Analysis of Given Mixture E Containing Four Radicals(Acids &

Basic)

Week 14, Day 5, Date: 06/04/2018

 Qualitative Analysis of Given Mixture F Containing Four Radicals(Acids & Basic)

Week 14, Day 6, Date: 07/04/2018

 Qualitative Analysis of Given Mixture F Containing Four Radicals(Acids & Basic)

Week 15, Day 5, Date: 13/04/2018

Revision and Practicals

Week 16, Day 5, Date: 20/04/2018

Revision and Practicals

Week 16, Day 6, Date: 21/04/2018

Revision and Practicals

Week 17, Day 5, Date: 27/04/2018

Revision and Practicals

Week 17, Day 6, Date: 28/04/2018