

**MODEL QUESTION PAPER FOR ASSISGNMENT**

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**(M.Sc. Chemistry II year) Set-II**

**Paper-I Organic Chemistry**

**Answer any three questions**

**3x10=30**

1. ?Describe about photochemistry of carbonyl compounds
2. Explain the classification of pericyclic reactions?
3. Write Synthesis and applications of organo copper reagent?
4. Write a note on (i) Beckmann rearrangement?  
(ii) Neber rearrangement?
5. Discuss briefly about catalytic hydrogenation reaction?

**Paper-II Heterocyclic chemistry chemotherapy and pros tag lands**

**Answer any three questions**

**3x10=30**

1. Explain synthesis and reactivity of pyrazole?
2. Write about chemotherapy?
3. Explain the structure and characteristics of penicillin?
4. Discuss physiological function of Vitamin-A?
5. Explain the Synthesis of PGE<sub>2</sub>?

**Paper-III Polymers, Bio-polymers**

**Answer any three questions**

**3x10=30**

1. ? Expalin the synthesis and applications of Nylons and PVC
2. Write the classification, properties, of the primary, secondary, tertiary, and quaternary structure?
3. Explain about the solid phase peptide synthesis?
4. Describe the difference between primary structures of DNA and RNA?
5. Discuss about vitamin-D?

## Paper-IV Natural products

Answer any three questions

3x10=30

1. Explain the synthesis of piperine
2. Isolation of terpenoids (i) Write a note on  
(ii) Isoprene rule?
3. Explain the structure determination of cholesterol?
4. Discuss the synthesis of Androsterone?
5. Describe briefly about Biosynthesis of flavonoids?