

## Unit – I

Q. 1 Explain the following -

- (i) Nuclear shielding and deshielding
- (ii) Thiophene + Acetic anhydride  $\rightleftharpoons$  ?
- (iii) Pyridine + Acetic Acid  $\rightleftharpoons$  ?

Q.2 How will you obtain following -

- (i) Sulpha pyridine from aniline
- (ii) Sulphonal from acetone

## Unit – II

Q. 3 discuss the mechanism of the following –

- (i) Fischer Indole synthesis
- (ii) Skraup synthesis

Q.4. How will you synthesize the following –

- (i) Phthalic anhydride from Furan
- (ii) Quinoline from Indole

## Unit – III

Q.5. Write short note on following –

- (i) Killiani synthesis
- (ii) Mutarotation

Q.6. How will you convert-

- (i) Fructose into Fructosazine
- (ii) Glucose into Fructose

## Unit – IV

Q.7. Write short note on following –

- (i) Bergmann's synthesis
- (ii) Peptide Linkage

Q.8. What do you mean by the following points-

- (i) Transcription
- (ii) ATP & NADP
- (iii) Translation

## Unit – V

Q.9. Write short note on following –

- (i) Ziegler – Natta catalyst
- (ii) Buna – s
- (iii) Neoprene

Q.10. Write Structures of following –

- (i) Malachite Green
- (ii) Congo Red
- (iii) Alizarin

# BIYANI GIRLS COLLEGE

Model Paper - 2015  
B.Sc. (Final) Chemistry  
Organic Chemistry

Time – Three Hours

Marks - 33

## Unit – I

Q. 1 Explain the following -

(i) Coupling constant

(ii) Acetyl Chloride + Dimethyl Zinc  $\rightleftharpoons$  ?

(iii) Ethyl Lithium + Diethyl Zinc  $\rightleftharpoons$  ?

Q.2 Give method for synthesis of the following -

(i) Sulphonamide from Benzene

(ii) Sulphonilamide from Aniline

## Unit – II

Q. 3 discuss the mechanism of the following –

(i) Bischler – napieralski reaction (ii) Fiest – benari synthesis

Q.4. How will you synthesize the following –

(i) Thiophane from Butane

(ii) Pyrrol from Succinimide

## Unit – III

Q.5. Write short note on following –

(i) Ruff's method

(ii) Lobry – de – bruyn van rearrangement

Q.6. How will you convert-

(i) Aldopentose to aldohexose

(ii) D - Glucose into D- mannose

## Unit – IV

Q.7. Write short note on following –

(i) Erlenmeyer Azalacton synthesis

(ii) Iso electric point

Q.8. what do you mean by the following points-

(i) Genetic code

(ii) Zwitter ion

(iii) Translation

## Unit – V

Q.9. Write short note on following –

(i) Saponification

(ii) Teflon

(iii) Decron

Q.10. Write Structures of following –

(i) Phenolphthalein

(ii) Methyl orange