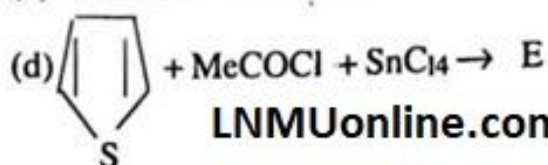
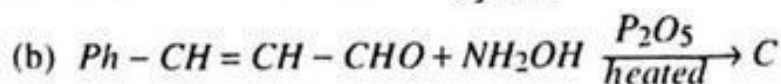
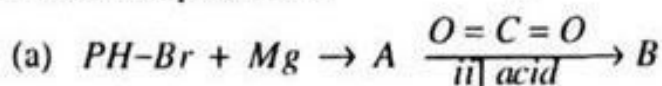


Chemistry (Hons.) Paper-VII

Answer five questions in which Q.No. 1 is compulsory. LNMUonline.com

1. Explain the following :
 - (a) Pyridine undergoes nucleophilic reaction at position 2.
 - (b) Furan undergoes electrophilic substitution at position 2.
 - (c) Position 1 is more reactive than position 2 of naphthalene for the electrophile.
 - (d) The chair conformation is more stable than boat form of cyclohexane.
2. (a) Discuss the evidences which led to the structure determination of naphthalene.
(b) How will you synthesise naphthalene from benzene ?
(c) How will you synthesise naphthalene using butadiene as a starting material
3. Give a brief account of the following name reactions :
 - (a) Michael Addition (b) Diels-Alder Reaction (c) Claisen Rearrangement
4. Discuss the chemistry of the following reagents :
 - (a) Diazomethane (b) Lithium aluminium hydride (c) Periodic acid
5. Predict the products :



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6. (a) What are Ureides ? Discuss the evidences which led to the structure determination of uric acid.
(b) How is uric acid synthesised ?
7. (a) Discuss the methods employed for the establishment of primary structure of peptide.
(b) Write notes on the following : (i) Protein denaturation (ii) Isoelectric point
8. (a) Define Chirality and dihedral angle.
(b) Draw various projection formulae of n-butane and suggest their stability.
(c) Draw the conformation of : (i) 1, 2-dibromoethane (ii) Cyclopentane
9. How will you synthesise the following :
 - (a) Methyl orange (b) Fluorescein (c) Congo red (d) Phenolphthalein

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