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TOPICS FOR INTERNAL ASSESSMENT ASSIGNMENTS (2010-11)
Course: M.Sc. APPLIED CHEMISTRY (Final)

Note: Students are advised to read the separate enclosed instructions before beginning the writing of assignments.

Out of 15 Internal Assignment marks per paper, 5 marks will be awarded for regularity (attendance) to Counseling/ Contact Programme/ Practical classes pertaining to the paper. Therefore, the topics given below are only for 10 marks each paper.

Answer ANY TWO Questions from Each Paper. Each question carries FIVE marks.

Paper V: Advanced Inorganic Chemistry

1. Discuss the synthesis, structure and bonding in metal-olefin complexes with an example.
2. Describe the mechanism of hydrogenation of olefins using Wilkinson's catalyst.
3. Discuss the structure and bonding in ferrocenes.

Paper VI: Bio-organic and Medicinal Chemistry

1. Discuss the factors affecting the drug action.
2. Discuss the sigmatropic rearrangements.
3. Discuss the mechanism and application of benzyl-benzilic acid rearrangement.

Paper VII: Polymer Chemistry and Technology

1. What are polycondensation reaction? Explain aminolysis and acidolysis.
2. Write a note on conducting polymers.
3. Discuss fiber spinning technique in polymer processing.

Paper VIII: Selected Topics in Industrial Chemistry

1. Write a note on quality control.
2. Write a note on different types of evaporators.
3. Explain the mechanism of drying.