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TOPICS FOR INTERNAL ASSESSMENT ASSIGNMENTS (2009-10)

Course: M.Sc. APPLIED CHEMISTRY (Final Year)

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. What is crystal field splitting? Discuss the crystal field splitting in square planar complexes.
2. What is Waker's process? Discuss the mechanism of Waker's process.
3. What are metalloenzymes? Write the structure and explain the importance of vitamin B₁₂-Coenzyme.

Paper VI: Bio-organic and Medicinal Chemistry

1. Discuss the mechanism and application of Diel's – Alder reactions.
2. Describe the synthetic application of (i) DCC (ii) Selenium dioxide.
3. What are antimalarials? Explain the synthesis of chloroquine.

Paper VII: Polymer Chemistry and Technology

1. Discuss calendaring and die casting.
2. Discuss cationic polymerization.
3. Discuss the biological application of polyemers.

Paper VIII: Selected Topics in Industrial Chemistry

1. Discuss the classification of boilers.
2. Discuss the specification for raw materials.
3. Discuss different types of distillation process.
