

[LB 4257] AUGUST 2012 Sub. Code: 4257 SECOND YEAR B.PHARM. EXAM Paper II – PHARMACEUTICAL ANALYSIS AND PHYSICAL CHEMISTRY Q.P. Code: 564257 Time: Three hours Maximum: 100 Marks (180 Min) Answer ALL questions in the same orde Answer Section A and B in SEPARATE Answer Book. SECTION A (PHARMACEUTICAL ANALYSIS) Pages Time Marks I. Elaborate on: (Max.)(Max.)(Max.) 1. a) Explain in detail about oxygen flask combustion method? b) Masking and de-masking agents in complexometric titrations. 33 20 II. Write notes on: 1. How do you determine the acid value? 5 8 5 2. Write notes on dead stop end point? 3 8 3 5 3. Write the mechanism of buffer and its applications? 4. What is Gasometry? Give the procedure for the assay 5 of oxygen? III. Short Answers: Define iodometry? 1 2. Give the example of acid-base indicators? 5 1 5 3. What is plane polarized light? How it is achieved? 1 5 4. Define chelating agents? 5. What is a real and ideal solution? 5 SECTION - B (PHYSICAL CHEMISTRY) IV. Elaborate on: Define and explain the various types of colligative properties. Write the methods used for determining the elevation of boiling point? 19 33 20 V. Write notes on: Explain Debye-Huckel's theory? 5 Explain Phase rule and the terms phase, component and degrees offreedom? 5 8 3. What is plane polarized light? How it is achieved? 3 8 5 4. Explain Hess law of constant heat of summation? 5 VI. Short Answers: 1. Define partition co-efficient? 5 2 1 2 5 2. State second law of thermodynamics? 5 2 3. What is Nernst distribution? 1 5 2 4. Define order of reaction? 1 5 2 1 5. What is adsorption?

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