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JAYPEE UNIVERSITY OF INFORMATRION TECHNOLOGY, WAKNAGHAT

Test 1- Examination 2016

B.Pharm VIIIth Semester

COURSE CODE: 12B1WPY835 MAX. MARKS: 15

COURSE NAME: Analytical Techniques

MAX. TIME: 1 HR **COURSE CREDITS: 3**

Note: All questions are compulsory. Carrying of mobile phone during examinations will be treated as case of unfair means. 1 O.1. How does partition chromatography differ from adsorption chromatography? Q.2. Why is the relative standard deviation considered a popular and practical expression of data 1 quality? 1 O.3. Define analytical science, analysis, chemical analysis, analyte, matrix, and assay. O.4. Define recrystallization, distillation, fractional distillation, extraction, liquid-liquid extraction, solvent extraction, countercurrent distribution, liquid-solid extraction, and chromatography. 1 O.5. What sort of things do the GLP regulations address? Q.6. Distinguish clearly between accuracy and precision. 1 Q.7. Why are sampling and sample preparation procedures as crucial to the success of an analysis as the analytical method chosen? 2 Q,8. Why is it important for a sample to be homogeneous before it is divided to create the test 1 sample? Q.9. How important is the label on a sample or reagent? What information should appear on the label of a sample to be analyzed? What information should appear in the notebook record? 1 Q.10. In recrystallization, how is it that both soluble and insoluble impurities are removed from the solid being purified? Q.11. Distinguish between qualitative analysis and quantitative analysis. Give examples 1 O.12. Consider a mixture of compound A, a somewhat nonpolar liquid, and compound B, a somewhat polar liquid. Tell which liquid, A or B, would emerge from a chromatography column 2 first under the following conditions and why: (a) A polar liquid mobile phase and a nonpolar liquid stationary phase (b) A nonpolar liquid mobile phase and a polar liquid stationary phase