

International Islamic University Chittagong

Department of Pharmacy

Final Examination Spring 2018

Course Code: Pharm. 1205

Course Title: Physical Pharmacy-II

Group-A 20 Marks (Answer any two Questions)

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|--|---|
| Explain the graphical method for the determination of order of reaction. | 4 |
| "Previous method of AST was time consuming"-Justify the statement. | 2 |
| Explain the Garrett and Carper method for the determination of shelf life of a drug. | 4 |
| Compare between the terms solubility and miscibility. | 2 |
| "Hydrogen bonding and structural features effects on solubility"- Justify the statement | 4 |
| Express the term distribution law. Explain the pharmaceutical application of distribution law with a suitable example. | 4 |
| Outline the collision theory for reaction kinetics. | 3 |
| How can you determine the 2 nd order of reactions? | 4 |
| Enumerate the transitional state theory. | 3 |

Group-B 30 Marks

(Answer any three Questions)

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|---|-----|
| What is colloid? Classify the colloids. | 1+2 |
| Briefly describe bredigs method for sols. | 4 |
| Analyze "Kinetic properties of sols" | 3 |
| After explaining Faradays 1 st law of electrolysis define the term electrochemical equivalent. | 6 |
| Proof that $t_+ + t_- = 1$ | 2+2 |
| Explain the half reaction with an example. | 3 |
| How can you measure the emf of an unknown cell? | 5 |
| "Weston standard cell is most commonly used as a standard cell"-Justify the statement. | 2 |
| Design a standard hydrogen cell. | 5 |
| "Equivalent conductance varies with concentration"- Justify the statement. | 5 |