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[LF 823] **OCTOBER 2014 Sub. Code: 3823**

DOCTOR OF PHARMACY (PHARM. D / POST BACCALAUREATE)

DEGREE EXAMINATION (2009-2010 Regulation)

FOURTH YEAR

PAPER V – BIOPHARMACEUTICS AND PHARMACOKINETICS

Q.P. Code: 383823

Time: Three Hours Maximum: 70 marks

Answer All questions

I. Elaborate on: $(4 \times 10 = 40)$

1. Define absorption.

Explain briefly about different mechanisms of drug absorption.

- 2. Advantages, Criteria of urinary excretion data. How will you find out elimination rate constant from the data?
- 3. Bioequivalence study protocol.
- 4. Multiple dosage regimens.

White Ranker com II. Write notes on: $(6 \times 5 = 30)$

- 1. Partition theory and its modifications.
- 2. Blood Brain Barrier.
- 3. Significance of protein binding.
- 4. Carternary model.
- 5. Wagner Nelson Method.
- 6. Theophylline was administered to a patient at a dosing rate of 600 mg/day and 1200 mg/day. Respective steady state concentrations were 9.8 mg/L and 28.6mg/L. Find out K_m and V_{max} . Determine the dosing rate to achieve steady state concentration of 15 mg/L.
