

Code: 9R01702

R09

B.Pharm IV Year I Semester (R09) Supplementary Examinations November 2016

BIOPHARMACEUTICS & PHARMACOKINETICS

Time: 3 hours

Max. Marks: 70

Answer any FIVE questions
All questions carry equal marks

- 1 Explain the factors influencing drug absorption and bioavailability.
- 2 (a) Define disposition and distribution of drugs. What is the major mechanism for distribution of drugs? What is its driving force?
(b) Describe specialized barriers for the distribution of drugs.
- 3 (a) Explain in brief about binding of drugs to blood component.
(b) Write a note on kinetics of protein drug binding.
- 4 What is open and close model? Explain one compartment open model-IV bolus administration.
- 5 Describe renal clearance. Explain methods of measuring renal clearance. Describe factors affecting renal clearance.
- 6 (a) Write a note on scope of clinical pharmacy.
(b) How do you calculate the half of a drug in a patient by IV infusion method?
- 7 (a) Give the different methods for determination of K_m and V_{max} .
(b) Explain dose dependent and time dependent kinetics with an example.
- 8 Define dissolution. Explain official and unofficial methods of dissolution.
