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MPL-205

M. PHARMA.**THEORY EXAMINATION (SEM-II) 2016-17****CLINICAL PHARMACOLOGY & BIOPHARMACEUTICS****Time : 3 Hours****Max. Marks : 70****Note :** Be precise in your answer. In case of numerical problem assume data wherever not provided.**SECTION- A****1. Attempt all parts of this Section :****7×2=14**

- (a) Write a brief note on hypertension in pregnancy.
- (b) Narrate the various drug induced complications in hepatic impairment.
- (c) Suggest some drug food interactions with antibiotics
- (d) What is the clinical significance of therapeutic drug monitoring.
- (e) Justify some of the recent methods of anti- tubercular treatment.
- (f) Enlist the various physicochemical factors affecting drug absorption and explain any one of them.
- (g) Discuss the importance of bioequivalence study in the current context.

SECTION- B**2. Attempt any three parts of the following :****3×7=21**

- (a) Discuss in detail the management and path-physiology of the following diseases:
 - (i) Congestive heart failure
 - (ii) COPD
- (b) Narrate the various mechanisms generally observed for drug- drug interactions.
- (c) Justify the clinical significance and its need on patients with reference to amino-glycosides and phenytoin.
- (d) What is bioavailability? Explain in detail the various pharmacokinetic and methods used for determining bioavailability of a drug from a dosage form.
- (e) What is the difference between linear and non linear pharmacokinetics. Enlist the various causes of non linear pharmacokinetic behaviour.

SECTION- C**3. Attempt all questions in this section :****5×7=35**

- (a) Discuss the detailed management and clinical practice guidelines with reference to any two of the following diseases:

(i) Hepatitis B	(ii) Cancer
(iii) Chronic renal failure	(iv) Diabetes mellitus
- (b) Suggest the rationale for combination therapy with reference to cardiovascular drugs.

- (c) Narrate the various reasons for antibiotic resistance. Suggest some guidelines how to overcome them in the light of National Health Policy.

OR

Write short notes on AIDS and Chicken Pox.

- (d) How will you measure the rate of drug absorption and distribution of a drug of choice? Explain In vitro –in vivo correlation

OR

Write a brief note on “study of physiological transporter system highlighting the blood brain and blood placental barrier”.

- (e) **Write short note any two of following.**

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| (i) Area under the curve | (ii) Apparent volume of distribution |
| (iii) Clearance | (iv) Biological half life |