

**GUJARAT NATIONAL LAW UNIVERSITY  
GANDHINAGAR****Course: Pharmaceutical Science  
Semester-IV (Batch: 2014-19)****Mid Semester Test: Feb-Mar. 2016****Date: 05<sup>th</sup> March 2016****Duration: 1 ½ hours****Max. Marks: 20****Instructions:**

- Read the questions properly and write the answers in the given answer book.
- The respective marks for each question are indicated in-line.
- Do not write anything on the question paper.
- Draw the diagrams only with pencil.
- Indicate correct question numbers in front of the answers.
- No questions or clarifications can be sought during the exam period, answer as it is, giving reason, if any.

**Part-A****Marks**

- Q.1 Which is the most common route of drug administration? When it cannot be employed? (01)
- Q.2 By which process can drug cross membranes? Name the commonest process for drug transfer across cell membrane and explain why it is commonest process. (02)
- Q.3 Mention the factors for deciding the route of choice. (02)
- Q.4 What is mechanism of action? Enumerate any three physical factors modifying drug action. (03)
- Q.5 Write a note on most common way to consume drugs and its various forms. (03)

**Part-B**

- Q.6 Preclinical studies in animals are essential before undertaking clinical trials. Explain the four kinds of toxicity studies done in animals. (03)
- Q.7 What is cytochrome P450 enzyme? Explain the pharmacogenomics of CYP2D6. (03)
- Q.8 Write short notes on Endocannabinoid system. (03)

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