

List of Practical's  
4<sup>th</sup> Semester

**BP406P Medicinal Chemistry I-Practical**

Sl. No.	List of the Experiment
	<b>Determination of Percentage Purity</b>
1	To perform the assay of aspirin
2	To perform the assay of phenobarbitone
3	To perform the assay of furosemide
4	To perform the assay of ibuprofen
5	To perform the assay of chlorpromazine
6	To perform the assay of atropine
	<b>Determination of Partition Coefficient</b>
7	Determination of partition coefficient of benzoic acid between benzene and water
	<b>Preparation of Medicinal Compounds</b>
8	To prepare benzimidazole from ortho-phenylenediamine and formic acid
9	To prepare benzotriazole from ortho-phenylenediamine and nitrous acid
10	To prepare 2,3-diphenyl quinoxaline from benzil and ortho-phenylenediamine
11	To prepare phenytoin from benzoin and urea
12	To prepare benzocaine from para-aminobenzoic acid and ethanol
13	To prepare phenothiazine from diphenylamine and sulfur powder
14	To prepare 4-benzylidene-2-phenyl oxazole-5-one from benzoyl glycine and benzaldehyde
15	To prepare 4-benzylidene-2-phenyl oxazole-5-one

## BP407P Physical Pharmaceutics II Practical

Sl. No.	Experiment Title
1	Determination of angle of repose and influence of lubricant on angle of repose
2	Determination of bulk density, true density and percentage porosity
3	Determination of viscosity of liquid using Ostwald's viscometer
4	Determination of sedimentation volume with effect of different suspending agents
5	Determination of sedimentation volume with effect of different concentrations of single suspending agent
6	Determination of particle size distribution by sieving method
7	Calibration of eye piece micrometer
8	Determination of reaction rate constant (first order)
9	Determination of viscosity of semisolid using Brookfield viscometer
10	Determination of reaction rate constant (second order)
11	Accelerated stability studies

### BP408P Pharmacology I–Practical

Sl. No.	List of Experiments
1	Introduction to in-vitro pharmacology and physiological salt solutions
2	Effect of drugs on isolated frog heart
3	Effect of drugs on normal and hypodynamic perfused frog heart
4	Effect of drugs on blood pressure and heart rate of dog
5	Study of diuretic activity of drugs using rats/mice (Lipschitz test)
6	Dose response curve (DRC) of acetylcholine using frog rectus abdominis muscle
7	Effect of physostigmine on DRC of acetylcholine using frog rectus abdominis muscle and rat ileum
8	Effect of atropine on DRC of acetylcholine using frog rectus abdominis muscle and rat ileum
9	Study of drugs on locomotor activity using actophotometer
10	Bioassay of oxytocin using rat uterine horn by interpolation method
11	Study of anti-inflammatory property of indomethacin against carrageenan-induced acute paw oedema in rats
12	Study of analgesic effect of morphine in mice using hot plate method
13	Study of analgesic effect of morphine in mice using tail flick method
14	Study of analgesic effect of morphine against acid-induced writhing in mice

### BP409P Pharmacognosy I–Practical

Sl. No.	Name of Experiment
	<b>Morphology of Crude Drugs</b>
1	Cinchona
2	Cinnamon
3	Senna
4	Clove
5	Ephedra
6	Fennel
7	Coriander
	<b>Isolation of Phytoconstituents</b>
8	Isolation of caffeine from tea dust
9	Isolation of diosgenin from Dioscorea
10	Isolation of sennosides from senna
11	Isolation of atropine from belladonna
	<b>Chromatography</b>
12	Thin layer chromatography of herbal extracts
13	Separation and identification of sugars by paper chromatography
14	Distillation of volatile oils and detection of phytoconstituents by TLC
	<b>Analysis of Crude Drugs by Chemical Tests</b>
15	Asafoetida, Benzoin
16	Aloes, Myrrh, Colophony