



**DR. B. C. ROY COLLEGE OF PHARMACY & AHS, DURGAPUR  
(NBA Accredited for UG Pharmacy Program)**

**FACULTY: Dr. Aniruddha Mukherjee (AM)**

**PROGRAM: B. PHARM**

**Semester: 5th**  
**Course Code: PT - 598**  
**Course Name: Pharmacology II (practical)**

**List of experiment**

<b>S.N.</b>	<b>Name of Experiment</b>
I	Introduction to in-vitro pharmacology and physiological salt solutions.
II	Effect of drugs on blood pressure and heart rate of dog.
III	Study of diuretic activity of drugs using rats/mice.
IV	Determination of the analgesic effect of analgesic on mice using hot plate apparatus.
V	Introduction of Bioassay.
VI	DRC of acetylcholine using frog rectus abdominis muscle
VII	Bioassay of histamine using guinea pig ileum by matching method.
VIII	Bioassay of oxytocin using rat uterine horn by interpolation method.
IX	Bioassay of serotonin using rat fundus strip by three point bioassay.
X	Determination of $PA_2$ value of antagonist (by Schilds plot method).

Reference book - Practical Manual of Experimental and Clinical Pharmacology (2010) - [click here](#)

**Materials for Reference and Self Study:**

Week	Experiment no	Topic	Live Recording Link	Powerpoint Presentation Link	Supplementary Notes / Resources	Quiz
5-9th Jan 2021	I	Introduction to In-vitro Pharmacology and Physiological Salt Solutions	<a href="#">Video</a>	<a href="#">PPT</a>	<a href="#">Material</a>	PCA1
17-23 January 2021	V	Introduction of Bioassay	<a href="#">Video</a>	<a href="#">PPT</a>	<a href="#">Material</a>	<a href="#">PCA2</a>
25-30 January 2021	VI	DRC of acetylcholine using frog rectus abdominis muscle	<a href="#">Isolating</a> of Rectus Abdominis Muscle from frog  <a href="#">Video-I</a> DRC of acetyl -choline using frog rectus abdominis muscle  <a href="#">Video-II</a> the simulated experiment	<a href="#">PPT</a>	<a href="#">Study Material</a>	<a href="#">PCA3</a>
31th January - 7 February 21	VII	Bioassay of histamine using guinea pig ileum by matching method	Video	<a href="#">PPT</a>	<a href="#">Study material</a>	PCA4