**PHARMACOLOGY & THERAPEUTICS-IB [Theory] Cr. Hr. 03**

**Course Code: PHARM.212**

**Table of Specification**

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| **Lecture No.** | **Topic** |
|  | **Introduction of course outline** |
|  | **AUTACOIDS AND THEIR ANTAGONISTS** Histamine and anti-histamines (1ST Generation) |
|  | Anti-histamines (2nd Generation) |
|  | serotonin and serotonin antagonistprostaglandins and their antagonists |
|  | **DRUGS ACTING ON CARDIO-VASCULAR SYSTEM:** coagulants  |
|  | Anti-coagulants  |
|  | Anti-hypertensive drugs (ACEIs, Renin Blocker, ARBs, β-Blockers) |
|  | Anti-hypertensive drugs (CCBs, others) |
|  | Congestive heart failure & its treatment |
|  | Diuretics (CAIs, Loop diuretics) |
|  | Diuretics (Acetazolamide, K+ Sparing Diuretics) |
|  | Anti-anginal drugs (Organic nitrates) |
|  | Anti-anginal drugs (Na+ Channels Blockers) |
|  | Anti-arrhythmic drugs (Na+ Channels Blockers) |
|  | Anti-arrhythmic drugs (K+ Channels Blockers, others) |
|  | Anti-hyperlipidemic (Statins, Fibrates, Niacin) |
|  | Anti-hyperlipidemic (Others) |
|  | **DRUGS ACTING ON RESPIRATORY SYSTEM:**Drugs used in cough (Anti-tussives, Expectorants and Mucolytic agents). |
|  | Drugs used in Bronchial Asthma  |
|  | **Bronchodilators:** Sympathomimetic, Xanthine derivatives,  |
|  | Leukotriene receptor antagonists and synthesis inhibitors, Muscarinic receptor antagonists |
|  | Cromoglycate, Nedocromil, Cortecosteroids & other Anti-inflammatory drugs. |
|  | **HORMONES, ANTAGONISTS AND OTHER AGENTS AFFECTING ENDOCRINE** **FUNCTION:** Endocrine function and dysfunctions. |
|  | Drug used for therapy of Diabetes Mellitus: Insulin  |
|  | Oral Hypoglycemic agents |
|  | Oral Hypoglycemic agents, Incretin mimetic |
|  | Thyroid hormone and anti-thyroid drugs |
|  | **DRUGS ACTING ON GENITOURINARY SYSTEM:**Oxytocin, Ergot alkaloids  |
|  | Uterine relaxants |
|  | **ANTI-ANAEMIC DRUGS** |

**Recommended Books:**

1.Goodman Gilman, Pharmacological basis of Therapeutics. 11th Ed McGraw- Hill Book Company, New York, 2008.

2.Winguard and Brody's, Human Pharmacology, Mosby Year Book, Boston, 1991.

3.James M Ritter and Lionel De Levis, A Text book of Clinical Pharmacology,

5th Ed Oxford University Press, New York, 2008.

4. R S Satorkar and S D Bhandarkar, Pharmacology and Pharmacotherapeutics, 19th Ed, Popular Prakashan, Bomby, 1998.

5. J D Tripathy, Essential of Medical Pharmacology, Japees Brother, New Delhi, 6th Ed., 2008.

6. D R Laurence, Clinical Pharmacology, ELBS, London, 8th Ed., 1998.

7. Katzung B G, Basic and Clinical Pharmacology, McGraw-Hill Medical Publishers, New York, 11th Ed., 2009.

8. Lippincott, Pharmacology, 4th Ed, Lippincott William & Wilkins, USA, 2008.

9. Manuchair Ebadi, Pharmacology, Little Brown & Company, London, 1993

10. Prof Dr A Qayum, Fundamentals of Experimental Pharmacology.

11. Bertram G K, Basic and Clinical Pharmacology, Paramount Publishing Business & Professional Group, USA, 10th Ed., 2007.

12. William F Ganong, W F, Review of Medical physiology, 22nd Ed, 2005 Prentice Hall International Inc, New Jersey.

13. Qayum A, Fundamentals of Experimental Pharmacology. Ghandhara University, Peshawar, 2004.

14. Humphrey P. Rang, Rang & Dale's Pharmacology, 6th Ed, 2007.