

BIRLA INSTITUTE OF TECHNOLOGY, MESRA, RANCHI  
(END SEMESTER EXAMINATION)

CLASS: M.PHARM  
BRANCH: PHARMACY

SEMESTER: II<sup>ND</sup>  
SESSION: SP-25

SUBJECT: MPL201T ADVANCED PHARMACOLOGY-II

TIME: 3.00 Hours

FULL MARK: 75

INSTRUCTIONS:

1. The missing data, if any, may be assumed suitably.
2. Before attempting the question paper, be sure that you have got the correct question paper.
3. Tables/Data hand book/Graph paper etc. to be supplied to the candidates in the examination hall.
5. Answer any five questions.

- 1a. Define emesis & give etiology of vomiting. [7]  
1b. Classify Anti- emetic drugs with examples. Discuss H<sub>1</sub> & Dopamine receptor antagonists [8]
- 2a. Give pharmacological actions & adverse effects of Gluco-corticoids [7]  
2b. How to manage Diabetic ketoacidosis [8]
- 3a. How to manage Diabetic ketoacidosis [7]  
3b. Classify Oral anti- diabetic drugs. Give Mechanism of action & adverse effect of Sulphonyl Ureas [8]
- 4a. Enumerate anti-Ulcer drugs. Discuss antacids & Anti *H. pylori* drugs [7]  
4b. Explain Principle and General mechanism of action of Antimicrobial drugs. [8]
- 5a. Explain five families of Efflux pump mechanisms behind Antimicrobial resistance. [7]  
5b. Explain types and Mechanism of action of Antimicrobial resistance with suitable examples [8]
- 6a. Explain Cell cycle of Cancer and Classify cell cycle specific drugs and Cell cycle Nonspecific drugs. [7]  
6b. Describe Cancer treatment Modalities with rationale. [8]
- 7a. Explain the molecular mechanism of action of Innate & adaptive immune system to activate T & B lymphocytes with suitable diagram. [7]  
7b. Explain mechanism of action and uses of immunosuppressants like Calcineurin Inhibitors, m-TOR Inhibitors, TNF-alfa Inhibitors, Anti-CD3 antibodies and IL-2 Inhibitors. [8]

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