

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

CLASS: M.Pharm
BRANCH: PHARMACY

SEMESTER: II
SESSION: SP-22

SUBJECT: Advanced Pharmacology-II (MPL201T)

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.
-

- 1a. How are Thyroid hormones synthesized, stored & secreted [7]
1b. Give actions of Thyroid hormones & classify antithyroid drugs with examples [8]
- 2a. Discuss steps involved in Insulin synthesis & give target tissues where insulin acts [7]
2b. Classify diabetes & anti-diabetic drugs. Give mechanism of action of Alpha-glucosidase inhibitors [8]
- 3a. Classify anti-ulcer drugs. Elaborate drugs that protect mucosa [7]
3b. Discuss the drugs that are receptor antagonists in anti-emetic category [8]
- 4a. Explain mechanism of action of Oral contraceptives and the dosage forms available [7]
4b. List the hormones produced by anterior Pituitary gland. Discuss growth hormone [8]
- 5a. What is Antibiotic Resistance? Explain types & Mechanism of Resistance to antibiotics [7]
5b. Explain different mechanisms of action Resistance by following Antibiotics such as beta-lactam, Aminoglycoside, Macrolides and Fluoroquinolones antibiotics [8]
- 6a. What are Immunomodulators. Write classification & Mechanism of action & therapeutic uses of Immunosuppressive agents [7]
6b. What are Immunostimulants? Write Classification, mechanism of action and therapeutic uses of each class of Immunostimulants [8]
- 7a. Explain Cell cycle of Cancer cell. Write Goal, therapeutic uses and side effects of Chemotherapy. [7]
7b. Write some examples and mechanism of action of drugs under Antimetabolites and Alkylating agents. Describe modes of chemotherapy administration and common combination chemotherapy regimens [8]