

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

CLASS: MPHARM  
BRANCH: PHARMACY

SEMESTER : II  
SESSION : SP/18

SUBJECT: MPH2031 ADVANCED PHARMACOLOGY - II  
TIME: 3 HOURS

FULL MARKS: 60

**INSTRUCTIONS:**

1. The question paper contains 7 questions each of 12 marks and total 84 marks.
  2. Candidates may attempt any 5 questions maximum of 60 marks.
  3. The missing data, if any, may be assumed suitably.
  4. Before attempting the question paper, be sure that you have got the correct question paper.
  5. Tables/Data hand book/Graph paper etc. to be supplied to the candidates in the examination hall.
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- Q.1(a) Explain biosynthesis and release of T4 and T3 through different steps [6]  
Q.1(b) Classify antithyroid drugs and explain their mechanism of action and therapeutic uses of following antithyroids drugs. a) Propylthiouracil b) Iodides c) Radioactive Iodine [6]
- Q.2 Write short notes on following drugs? [4x3]  
a) Octreotide b) Somatropin c) Thyrotropin d) CRH
- Q.3(a) Define and classify drug resistance and explain different transfer methods of drug resistance with suitable examples. [6]  
Q.3(b) Explain cross resistance with suitable examples and Write different preventive step measures of drug resistance. [6]
- Q.4(a) Write short notes on following antibiotics with bacterial resistance. [12]  
(i) B-lactams, (ii) Aminoglycosides (iii) Quinolones (iv) Macrolide, (v) Anti-TB- drugs
- Q.5 Write notes on following drugs for peptic ulcers. [12]  
(i) H<sub>2</sub> -antihistamines (ii) Proton pump Inhibitors (iii) Prostaglandin analogues (iv) Ulcer protectives  
(v) Anti-Helicobacter Pylori drugs
- Q.6(a) Define and classify Immunosuppressive agents and explain their mechanism of action and therapeutic uses. [6]  
(b) Write notes on  
(i) Immunomodulatory agents (ii) CD4 (iii) MHC [6]
- Q.7(a) Write notes on anti-alzheimer drugs [6]  
Q.7(b) Write notes on anti-parkinsonian drugs [6]

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