

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

CLASS: BPHARM  
BRANCH: PHARMACY

SEMESTER : VI  
SESSION : SP/18

SUBJECT: PS6403-PHARMACOLOGY - III (SYSTEMIC PHARMACOLOGY)

TIME:

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) Classify the drugs acting on GIT with suitable examples of major classes. [2]  
Q.1(b) Discuss the mechanism of action and uses of anticholinergics and H<sub>2</sub> antagonists. [4]  
Q.1(c) Explain the physiology of emesis. Give a detailed account of the emetic and antiemetic drugs. [6]
- Q.2(a) Identify the clinical uses of laxatives. [2]  
Q.2(b) Elaborate & explain the double ion effect of saline purgatives with the help of a suitable example [4]  
Q.2(c) Write explanatory notes on antidiarrhoeal agents. [6]
- Q.3(a) Enumerate the different types of anaemia and their causes. [2]  
Q.3(b) Illustrate the pharmacokinetics & ADRs for iron therapy and mention the treatment for acute iron poisoning. [4]  
Q.3(c) Detail out the uses of absorbable gelatin sponge BP, oxidized cellulose BP and vitamin K. [6]
- Q.4(a) Explain the physiology of cough. [2]  
Q.4(b) Classify drugs used in cough with suitable examples. [4]  
Q.4(c) Appraise the MOA, pharmacokinetics, uses and ADRs of salbutamol, methyl xanthines & potassium iodide. [6]
- Q.5(a) Explain the pathophysiology of congestive heart failure. [2]  
Q.5(b) Give the classification of cardiac glycosides with suitable examples. [4]  
Q.5(c) Explain the pharmacological action therapeutic uses of a cardiac glycoside. [6]
- Q.6(a) Differentiate between hypertension, angina pectoris and arrhythmia. [2]  
Q.6(b) Classify antihypertensives with examples. [4]  
Q.6(c) Discuss the mechanism of action of ACE inhibitors, Ca<sup>2+</sup> channel blockers and beta blockers. [6]
- Q.7(a) Write short notes on any two: [6x2]  
(i) thyroid hormones and anti thyroid drugs  
(ii) insulin  
(iii) analeptic drugs as respiratory stimulants

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