

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

**CLASS: BPHARM  
BRANCH: PHARMACY**

**SEMESTER :VI  
SESSION : SP/19**

**SUBJECT: PS6403-PHARMACOLOGY - III (SYSTEMIC PHARMACOLOGY)**

**TIME: 3.00 Hrs.**

**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) Define antacids & anti-secretory agents.   | [2] |
| Q.1(b) Analyze and discuss on Insulin & Diabetes in detail.   | [4] |
| Q.1(c) Classify and write a brief note on Oral hypoglycemic agents.   | [6] |
|   |     |
| Q.2(a) Define hypertension in brief.  | [2] |
| Q.2(b) Define Lipidemia? Briefly explain the Antihyperlipidemic drugs.  | [4] |
| Q.2(c) Classify Antihypertensive drugs and explain the mechanisms of each in brief.   | [6] |
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| Q.3(a) Classify Antidiarrhoeal drugs.   | [2] |
| Q.3(b) Describe a brief note on Emetics and Antiemetics.  | [4] |
| Q.3(c) Classify and write the mechanisms of Antisecretory and Anti-ulcer drugs.   | [6] |
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| Q.4(a) Write some examples of vasodilator agents.   | [2] |
| Q.4(b) Summarize the pathophysiology of cardiac arrhythmia? Classify the anti-arrhythmic agents with examples of each.                                | [4] |
| Q.4(c) Describe angina in brief? Classify and write the mechanisms of anti-anginal agents.  | [6] |
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| Q.5(a) Write some examples of respiratory stimulants? Classify cough.   | [2] |
| Q.5(b) Classify antitussives & expectorants with appropriate examples of each category.   | [4] |
| Q.5(c) Summarize & illustrate the pathophysiology of bronchial asthma? Classify the drugs used for the treatment of bronchial asthma with mechanisms. | [6] |
|   |     |
| Q.6(a) Define Fibrinolytics & Coagulants.   | [2] |
| Q.6(b) Write notes on Anticoagulants & Anti-platelet drugs.   | [4] |
| Q.6(c) Define and write notes on Plasma volume expanders & Hematinics.  | [6] |
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| Q.7(a) Write about the biological synthesis of sex hormones.  | [2] |
| Q.7(b) Analyse & Summarize a brief note on Estrogen & progesterone.   | [4] |
| Q.7(c) Describe in detail about the aggressive and defensive factors of Peptic ulcer? Describe the mechanism of acid secretion in GI tract.           | [6] |

:::26/04/2019 E:::