

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

CLASS: B.PHARM  
BRANCH: PHARMACY

SEMESTER : VII  
SESSION : MO/19

SUBJECT: PS7405 SYNTHETIC MEDICINALS II

TIME: 3:00 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) Enlist Adrenergic drugs and give structure of any one. [2]  
Q.1(b) Classify Clolinergics giving examples. [4]  
Q.1(c) Give synthesis and uses of Prazocin and Clonidine. [6]
- Q.2(a) Enlist Ganglionic blocking agents and Neuromuscular blockers and give structure of one. [2]  
Q.2(b) Classify Adrenergics giving examples. [4]  
Q.2(c) Give synthesis and uses of Carbachol and Tropicamide. [6]
- Q.3(a) Explain what is the need to study Hormones. [2]  
Q.3(b) What are the basic features of Insulin? [4]  
Q.3(c) Write the synthesis and assay of a Hypoglycemic agent. [6]
- Q.4(a) Classify Cardiovascular drugs. [2]  
Q.4(b) Give synthesis of Isosorbide dinitrate. [4]  
Q.4(c) Give the synthesis of Captopril and Niacin. [6]
- Q.5(a) Give the synthesis of Norepinephrin. [2]  
Q.5(b) Give the synthesis of Salbutamol. [4]  
Q.5(c) Give the synthesis of any two Anti-parkinsonian agent. [6]
- Q.6(a) What are Diuretics? [2]  
Q.6(b) Give the mechanism of action of Carbonic anhydrase inhibitors. [4]  
Q.6(c) Explain the working of various Diuretics giving examples. [6]
- Q.7(a) Give the structure, uses and assay of Hydrochlorothiazide. [2]  
Q.7(b) What are Anti-anginal drugs? [4]  
Q.7(c) Write brief note on Anti-coagulants. [6]

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