Instructions:
(1) Fill up strictly the details of sign on your answer book.

Name of the Examination:
M. SC. (PART - II) (SEM. III)

Name of the Subject:
PHARMACEUTICAL CHEMISTRY : PAPER - II

Seat No.: 

(2) All questions are compulsory.
(3) Figures to the right indicate full marks of the questions.

1. Answers any three of the following 18
   
   a. What are broad spectrum antibiotics? Give the synthesis and uses of chloramphenicol.
   b. What are nonlactam antibiotics? Discuss the structural variations of Penicillins.
   c. Define the terms bacteriostatic and bacteriocidle antibiotics. Give the structures and clinical applications of non classified antibiotics.
   d. Define the term gram +ve and gram –ve bacteria. Give the structures and pharmacological applications of erythromycin and gentamycin.

2. Answers any three of the following 18
   
   a. Give the synthesis and uses of:
      1. pethedine
      2. lindocaine
      3. Glutethamide
b. What are anxiolytic agents? Discuss the mode of hypnotics.

c. Give the classification of analgesics and discuss and SAR of analgesics.

d. What are local anaesthetics? Discuss the SAR local anaesthetics.

3. Answers any three of the following

a. Discuss the mode of action among sulphonamides.

b. Give classification of sulphonamides according to their therapeutic uses.
   Give the names and structural formula of clinically important sulphonamides.

c. Give the synthesis and uses of:
   1. pyrilamine      2. Ethionamide      4. sulfasuccidine

d. Explain the antihistaminic drug action on the basis of agonist and antagonists competition.

4. Answers any three of the following

a. What are aminoglycosides? Enlists the β-lactum antibiotics and give the structural activity relationship of tetracyclins.

b. Give the mode of action of local anaesthetic and synthesis of procaine.

c. What do you mean by antidepressant and neuroleptic drugs? Give the synthesis of oxyphenbutazone and meclofenamate sodium.

d. Discuss the medicinal applications and chemical structures of Novobiocin & streptomycin.