

**B. Pharmacy (Ayur.) 8th Semester Examination**

**Medicinal Chemistry (NS)**

**BPA-821**

**Time : 3 Hours**

**Max. Marks : 70**

*The candidates shall limit their answers precisely within the answer-book (40 pages) issued to them and no supplementary/continuation sheet will be issued.*

**Note :** Question no. 1 is compulsory and carries 20 marks. Attempt any five questions out of remaining six questions which carry 10 marks each.

1. (a) Explain oxidative metabolism.  
(b) Explain reductive metabolism.  
(c) Give the synthesis of sulfamethoxazole.  
(d) Give the mode of action of sulfa drugs.  
(e) Give the mode of action of nystatin.  
(f) Give the mode of action of thiabendazole.  
(g) Give the synthesis of nitrofurantoin.  
(h) Give the mode of action of Nalidixic acid.  
(i) Give the mode of action of amphotericin.  
(j) Give the mode of action of aminoglycosides. (2×10=20)
2. Discuss the phase II drug metabolism.
3. What are cephalosporins? Classify with suitable-examples. Discuss their mode of action and inhibition. Add a note on SAR amongst cephalosporins.

4. What are antimycobacterial drugs? Classify them with suitable examples. Discuss their mode of action. Comment on Antiamoebic drugs.
5. What are antimalarial drugs? Classify them with suitable examples. Discuss their mode of action. Add a note on SAR amongst 9-aminoacridines.
6. Define and classify antiviral agents with suitable examples. Discuss their mode of action.
7. What are antineoplastic agents? Classify them with suitable examples. Discuss their mode of action. (5×10=50)