

[Total No. of Questions - 7] [Total No. of Printed Pages - 2]  
(2124)

1733

**B. Pharmacy (Ayurveda) 3rd Semester Examination**  
**Pharmacology-I (NS)**  
**BPA-324**

**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 1 is compulsory and candidates are required to attempt any five questions out of remaining six.

1. Answer any ten out of twelve.
  - (a) Describe the effect of ionization on bioavailability of a drug.
  - (b) Explain about the biodegradable implants.
  - (c) Write a note on half life.
  - (d) Classify the types of receptors.
  - (e) Differentiate the competitive and non-competitive antagonism.
  - (f) Describe the vasomotor reversal.
  - (g) What is salicylism?
  - (h) Justify the combination of levodopa with carbidopa.
  - (i) Classify the major tranquillizers.
  - (j) Explain the effect of chlorpheniramine in allergy.

**[P.T.O.]**

- (k) Why ethyl alcohol is given in the treatment of methyl alcohol poisoning?
- (l) What is MAO and COMT? (10×2=10)
2. (a) Narrate the advantages and disadvantages of parenteral route of administration.
- (b) Describe the significance of protein binding. (2×5=10)
3. (a) Describe the structure and working mechanism of G-protein coupled receptor.
- (b) Define the receptor occupation theory. Describe in brief about rate theory. (2×5=10)
4. (a) Write a note on beta blockers.
- (b) Write a note on organophosphorous poisoning. (2×5=10)
5. (a) Write a note on benzodiazepines.
- (b) Write a note on phenytoin. (2×5=10)
6. (a) Write a note on local anaesthetics.
- (b) Write a note on dantrolene, sodium. (2×5=10)
7. (a) Classify the antihistaminic drugs. Describe the pharmacological actions of H<sub>2</sub> receptor antagonist.
- (b) Define hypnotics. Write a note on sleep. (2×5=10)
-