[Total No. of Questions - 7] [Total No. of Printed Pages - 2]
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1539

B. Pharmacy (Ayurveda) 3rd Semester Examination

Pharmacology-I (N.S.)

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) Explain in brief about the volume of distribution.

   (b) What is Cytochrome P 450 mono oxygenase system? Enlist it's any two subtypes.

   (c) Define clearance of drug.

   (d) Define: Affinity and intrinsic activity.

   (e) Enlist the location and selective agonists of $\beta 1$ adrenoceptors.

   (f) Classify the general anaesthetics.

   (g) Enlist the endogenous opioid peptides.

   (h) Why carbidopa is added with levodopa?

   (i) Why clozapine is better drug to treat schizophrenia than haloperidol?

(j) Explain triple response.

(k) Explain the mechanism of action of disulfiram.

(l) Explain the Iontophoresis route of administration.

(10×2=20)

2. (a) Enlist the advantages and disadvantages of oral route of administration.

(b) Write a note on enzyme induction and enzyme inhibition. **(2×5=10)**

3. (a) Describe the signal transduction mechanisms of G-protein coupled receptor.

(b) What is Antagonism? Describe the types of antagonism. **(2×5=10)**

4. (a) Describe the types, location, signal transduction pathway, selective agonists and antagonists of cholinergic receptors.

(b) Describe the adrenergic transmission. **(2×5=10)**

5. (a) Explain the mechanism of action of NSAIDs as analgesic, antipyretic and anti-inflammatory agents.

(b) What is depression? Write a note on selective serotonin reuptake inhibitors. **(2×5=10)**

6. (a) Write a note on local anaesthetics.

(b) Write a note on antigout drugs. **(2×5=10)**

7. (a) Classify the histamine receptors. Describe their locations, physiological effects and selective antagonists.

(b) Write a note on cholinesterase reactivators. **(2×5=10)**