

**0113 E007**

**Second Year MBBS Examination  
II MBBS Pharmacology Paper 1**

**Time: 2 hours**

**Max Marks: 40**

1. Answer to the points.
2. Figure to the right indicates marks.
3. Use separate answer books for each section.
4. Draw diagrams wherever necessary.
5. Write legibly.

**Section 1**

**1. Give an account of any TWO of the following (10)**

- a) Relevance of pH in drug absorption  
(A. 11, B. 13)

b) Pharmacological basis of different classes of diuretics for various indications. (A. 579, B. 548)

c) Mechanism of action, pharmacological effects, clinical uses and adverse reactions of atropine (A.113, B. 292)

## **2. Write Short notes of (any three)**

a) Mechanism of action and basis (12) of use of aspirin and clopidogral in coronary heart disease. (A.629,B. 471)

b) Immunomodulators acting via TNF-alpha in rheumatoid arthritis (A. 212, B. 1041)

c) Therapeutic uses of cholinesterase inhibitors (A. 108, B. 283)

d) Pharmacological basis of the use of inhalational glucocorticoids and

salbutamol in bronchial asthma. (A. 230, B. 361)

### **3. Discuss Any Three (12)**

a) Mechanism of action, therapeutic uses and adverse effects of benzodiazepines (A. 402, 405, B. 109)

b) Mechanism of action of synergistic effect of statins and ezetimibe in the treatment of dyslipidemia. (A. 636, B. 582)

c) Pharmacological basis of uses and side effects of ACE- Inhibitors and AT1-receptor antagonists. (A.562, B. 421)

d) Pharmacological basis of use and dose and duration dependent adverse effects of phenytoin(A.413,B. 127)

### **4. Write Answer to the point in two or**

**three sentences: (any six) (6)**

- a) Why timolol but not propranolol is used in glaucoma? (A. 153, B. 1030)
- b) Why certain drug shows first dose response (exaggerated response to first dose)? (A. 142, B. 417)
- c) Explain how clonidine controls diarrhoea and tinismus of diabetic GIT antonomic neuropathy. (A.566,8. 412)
- d) How thiopentone sodium in IV bolus dose acts as an ultra-short acting general anesthetic? (A.381,B.102)/  
Give reasons: Thiopental is preferred over phenobarbitone for induction of G.A.
- e) Explain why sodium nitroprusside is contraindicated in patients with renal impairment? (A. 567, 419)

f) State the main uses of dicyclomine and propantheline. (A. 117, B. 297)

g) Why ethyl alcohol is useful in the treatment of methyl alcohol poisoning? (A. 395, B. 93)

h) Name two antiepileptic drugs which are used in the petit mal epilepsy. (A. 421, B. 139)

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