

**R-1569**  
**Second Year M. B. B. S. Examination**  
**February - 2010**  
**Pharmacology : Paper - I**

**Time : Hours]**

**[Total Marks : 40**

**Instructions :**

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- (2) Figures at right indicate marks.
- (3) Answers should be brief and to the point.
- (4) Give suitable examples where needed.
- (5) Draw diagrams if necessary.

1 Answer the following :

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- (a) What is double blind study in a clinical trial?
- (b) Name 2 (two) drugs that block the axonal uptake of noradrenaline.
- (c) What are prodrugs? Explain giving one example.
- (d) Why is tropicamide preferred over atropine for funduscopy?
- (e) Nasal decongestants should not be used for long periods. Give reason.
- (f) Enalapril may cause dry cough as an adverse reaction. The same is not seen with Losartan. Why?
- (g) Why is it preferable to use corticosteroids by inhalation rather than oral route in chronic bronchial asthma?
- (h) What is Monday Morning sickness?
- (i) What is orphan drug? Give one example.

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- 2 Answer any **three** of the following : 9
- Explain with suitable examples how change in pH of urine is helpful in therapeutics. Mention drugs used to alkalinize urine.
  - Enumerate various antiplatelet drugs. Discuss therapeutic uses of these agents in relation to cardiovascular system with pharmacological basis.
  - What is paradoxical tachycardia produced by quinkline? How can it be prevented? - Explain.
  - Compare and contrast properties of succinylcholine and d-tubocurarine (d-tz).
  - Enumerate various indications of heparin. How will you monitor the anticoagulant therapy?
- 3 Answer any **three** of the following : 12
- Enlist various ACE Inhibitors. Discuss the clinical uses and adverse effects of ACE Inhibitors.
  - Discuss the role of cardiac glycosides in a patient with congestive cardiac failure.
  - Discuss Oral Rehydration Therapy in Management of diarrhoea.
  - What is DRC? Explain competitive and non competitive antagonism with the help of DRC. Give two examples each of competitive and non competitive antagonism.
  - Explain giving three examples the importance of abrupt drug withdrawal in therapeutics.
- 4 Answer any **two** of the following : 10
- Discuss  $V_d$ , clearance and half life of a drug. Giving suitable examples explain their importance in clinical practise.
  - Discuss various drug-drug interactions in therapeutics giving suitable examples.
  - Enumerate various  $\beta$  blockers. Discuss their uses giving the pharmacological basis for each use you mention.