



PR-4011

Second Year M. B. B. S. Examination

June / July - 2014

Pharmacology : Paper - I

Time : 2 Hours]

[Total Marks : 40

Instructions :

(1)

Fill strictly the details of signs on your answer book. Name of the Examination : SECOND YEAR M. B. B. S.		Seat No. : <table border="1"> <tr> <td></td><td></td><td></td><td></td><td></td><td></td> </tr> </table>						
Name of the Subject : PHARMACOLOGY : PAPER-1		Student's Signature						
Subject Code No. : 4 0 1 1	Section No. (1, 2, ....) : Nil							

- (2) Answer must be brief, precise and to the point.
- (3) Always give suitable examples wherever needed.
- (4) Figures on the right indicate the marks allotted to the question.

- 1 Write as directed : (attempt all) 9
  - (a) What is maintenance dose ? Mention important factor that determines the maintenance dose.
  - (b) Describe with clinical significance, the hepatic first pass effect.
  - (c) Explain why atrophy of nasal mucosa is more likely in prolonged use of xylometazoline ?
  - (d) Explain with reasons whether salmeterol can be used for acute asthmatic attack.
  - (e) Explain with reasons whether warfarin can be used for initiation of treatment of deep vein thrombosis.
  - (f) Name two antimotility drugs and their two contraindications.
  - (g) What is peculiarity of esmolol ? Mention its clinical use.
  - (h) Name two prostaglandin analogues used for induction of labour and two analogues for treatment of glaucoma.
  - (i) Explain with examples zero order kinetics.
- 2 Answer any three of the following : 9
  - (a) Name three drugs from different groups for treatment of chronic bronchial asthma. Briefly describe the mechanism of action and adverse effects of each.

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[Contd...

- (b) Describe the clinical uses of alpha blockers.
- (c) Briefly describe the pharmacological basis of using each of the following.
  - (i) Adrenaline in anaphylactic shock
  - (ii) Glucagon for betablocker poisoning
- (d) Write a brief note on each of the following
  - (i) Cholestyramine
  - (ii) Tenecteplase
  - (iii) Lepirudin

3 Answer any three of the following : 12

- (a) Write a note on each of the following :
  - (i) Biscacodyl
  - (ii) Dextromethrophan
  - (iii) Protamine sulphate
  - (iv) Adenosine
- (b) Name four anti hypertensives that act by different mechanisms. Describe mechanism of action and adverse effect of each.
- (c) Describe clinical uses of calcium channel blockers. Comment on their use in combination with Beta blockers.
- (d) Name four antiemetic from different groups. Describe the mechanism, adverse effects and preferred use(s) of each.

4 Answer any two of the following : 10

- (a) Explain how 5-HT is synthesized in body. Describe briefly the mechanism of action and clinical uses of various agents that act through 5-HT receptors.
- (b) Describe briefly the clinical uses and adverse effects of angiotensin converting enzyme inhibitors.
- (c) Describe with suitable example(s) the pharmacokinetics and pharmacodynamic interaction.