


**DZ-4011**
**Second Year M. B. B. S. Examination**

June / July - 2016

**Pharmacology : Paper - I**

Time : 2 Hours]

[Total Marks : 40

**Instructions :**

(1)

નોંધ લેવું : જવાબમાં આપેલ સૂચનાઓ સત્વર અચૂંક. Fill up strictly the details of signs on your answer book.		Seat No. :
Name of the Examination : S.Y. M. B. B. S.		<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>
Name of the Subject : PHARMACOLOGY : PAPER - 1		Student's Signature
Subject Code No. : 4 0 1 1 Section No. (1, 2, ...) Nil		

- (2) Answers must be brief, precise and to the point.  
 (3) Always give suitable examples and draw figures where necessary.

1. Answer very briefly :

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- Mention the mode of administration of atropine in organophosphorus poisoning.
- Mention the exact time of omeprazole administration. Give the reason for the same.
- Why oral iron therapy is required to be given for a long time in a patient of iron deficiency anemia?
- Mention one limitation of a drug with long half-life and type of dose which can overcome this limitation.
- What are drug compendia? Give two examples of official compendia.
- Enlist two advantages of LMWH administration over HMWH.
- Give two reasons of importance of Zinc supplementation in pediatric diarrhoea.
- Name two antitussives used for productive cough.
- Write four uses of carbonic anhydrase inhibitors except diuretic use.

DZ-4011]

1

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- 2 Answer any **three** : 9
- Write a short note on apparent volume of distribution and its clinical significance.
  - Describe the mechanism of action of metoclopramide. Enumerate their therapeutic uses and adverse effects.
  - Write a short note on myasthenia gravis.
  - Write in brief about therapeutic uses of atropine substitutes giving pharmacological basis.
- 3 Answer any **four** : 12
- Enumerate therapeutic uses of ACE inhibitors. Explain the rationale for combining them with angiotensin receptor blockers.
  - Which are the advantages of plotting log DRC? Write in detail about drug potency, drug efficacy and drug selectivity using the concept of DRC (Use figures maximum).
  - Write a note on rational drug prescribing.
  - Enumerate drugs used in bronchial asthma. Write a short note on leukotriene antagonists.
  - Write down the adverse effects and uses of loop diuretics.
- 4 Answer any **two** : 10
- Describe the various properties of  $\beta$  adrenergic blocking drugs with clinical pros and cons. Describe their therapeutic uses giving proper pharmacological basis.
  - Classify drugs used in congestive heart failure. Describe the mechanism of action, adverse effects and current clinical status of inotropic agents.
  - Enlist various drugs from different categories for hypertension. Describe the general principles of antihypertensive drug therapy as per JNC 7<sup>th</sup> report.