

## DZ-4011

## Second Year M. B. B. S. Examination

June / July - 2016

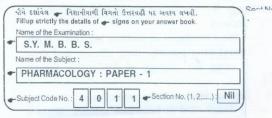
Pharmacology: Paper - I

Time: 2 Hours]

[Total Marks

Instructions:

(1)



- (2) Answers must be brief, precise and to the point.
- (3) Always give suitable examples and draw figures where necessary.
- 1 Answer very briefly :
  - (a) Mention the <u>mode of administration of atropine</u> in organophosphorus poisoning.
  - (b) Mention the exact time of omeprazole administration.

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

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- 2 Answer any three:
  - (a) Write a short <u>note on apparent volume of distribution</u> and <u>its clinical significance</u>.
  - (b) Describe the mechanism of action of metoclopramide. Enumerate their therapeutic uses and adverse effects.
  - (c) Write a short note on myasthenia gravis.
  - (d) Write in brief about therapeutic uses of atropine substitutes giving pharmacological basis.
- 3 Answer any four:
  - (a) 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).
  - (c) Write a note on rational drug prescribing.
  - (d) 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:

- (da) Describe the various properties of β 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.

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