

MANIPAL UNIVERSITY

SECOND MBBS DEGREE EXAMINATION – NOV/DEC 2013

SUBJECT: PHARMACOLOGY – PAPER I (ESSAY)

Monday, December 02, 2013

Time: 10:20 – 13:00 Hrs.

Maximum Marks: 80

1. Classify beta adrenergic receptor blockers with suitable examples. Explain four indications for beta adrenergic blockers with their rationale. Enlist two adverse effects and two contraindications for the same.

(4+4+1+1 = 10 marks)

2. Classify drugs used in angina pectoris with suitable examples. Enlist two drug combinations used in angina pectoris with their rationale. Outline the drugs used in the treatment of myocardial infarction.

(4+3+3 = 10 marks)

3. **Answer the following:**

- 3A. Explain the advantages and disadvantages of fixed dose drug combinations.
- 3B. Define bioavailability. Briefly explain the various factors affecting bioavailability.
- 3C. Define pharmacovigilance. Explain the terms 'photosensitivity' and 'idiosyncrasy' with suitable examples.
- 3D. Explain microsomal enzyme induction. Illustrate its clinical significance with suitable examples.
- 3E. Mention four common features of alpha adrenergic blockers. Explain the rationale for the use of phenoxybenzamine in pheochromocytoma.
- 3F. Explain two desirable properties of thiazide diuretics as antihypertensive drugs and enlist four adverse effects of the same.
- 3G. Enumerate four inotropic drugs used in congestive cardiac failure. Explain the rationale for the use of spironolactone in congestive cardiac failure.
- 3H. Mention two drugs used for prophylaxis of bronchial asthma. Explain the mechanism of action and enlist the adverse effects of any one.
- 3I. Explain the terms 'antitussives' and 'expectorants' with suitable examples. Explain the rationale for avoiding antitussives in productive cough.
- 3J. Mention two direct thrombin inhibitors. Explain the mechanism of action of warfarin. Outline two clinically significant drug interactions for the same.
- 3K. Write briefly on parenteral iron therapy.
- 3L. With the help of a figure enumerate four different groups of drugs used in the treatment of peptic ulcer with suitable examples.
- 3M. Write a short note on oral rehydrating salt solution.
- 3N. Mention two drugs used in the prophylaxis of migraine. Explain the mechanism of action and enlist two contraindications for sumatriptan.
- 3O. What are chelating agents? Write briefly on dimercaprol.

(4×15 = 60 marks)



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SECOND MBBS DEGREE EXAMINATION – NOV/DEC 2013

SUBJECT: PHARMACOLOGY – PAPER II (ESSAY)

Tuesday, December 03, 2013

Time: 10:20 – 13:00 Hrs.

Maximum Marks: 80

1A. Classify drugs used in Parkinsonism. Explain the mechanism of action and adverse effects of any one.

1B. Explain the mechanism of action, uses and adverse effects of lithium carbonate.

(6+4 = 10 marks)

2A. Name four macrolide antibiotics. Explain the mechanism of action, uses and adverse effects of any one.

2B. Explain superinfection with measures to minimize it.

(7+3 = 10 marks)

3. Answer the following:

3A. Name two uterine relaxants and two uterine stimulants. Mention two uses of each group.

3B. Explain four uses of glucocorticoids.

3C. Name four drugs used in thyrotoxic crisis and explain the rationale of their use.

3D. Write briefly on anabolic steroids.

3E. Explain mechanism of action and adverse effects of insulin.

3F. Name two azole antifungals. Explain their mechanism of action and adverse effects.

3G. Write short note on carbapenems.

3H. Name four second line antitubercular drugs. Why is multidrug therapy administered in tuberculosis?

3I. Name two drugs used in giardiasis. Explain mechanism of action and adverse effects of any one.

3J. Name two antimetabolites. Explain mechanism of action and adverse effects of any one.

3K. Explain two techniques of local anaesthesia with examples.

3L. Name four opioid analgesics. Explain treatment of opioid dependence.

3M. Mention four differences between diazepam and buspirone.

3N. Name four atypical antipsychotics. What advantages do they have over conventional antipsychotics.

3O. Write briefly on therapeutic uses of alcohol.

(4×15 = 60 marks)

