

MANIPAL ACADEMY OF HIGHER EDUCATION
SECOND MBBS DEGREE EXAMINATION – FEBRUARY 2021
SUBJECT: PHARMACOLOGY – PAPER II (ESSAY)

Thursday, February 18, 2021

Time: 14:20 – 17:00 Hrs.

Maximum Marks: 80

Answer ALL the questions.

1. Classify local anesthetics. Explain their mechanism of action, various techniques for administration and adverse effects.

(2+2+4+2 = 10 marks)

2. Classify drugs used in fungal infections with suitable examples. Explain the mechanisms of action of any two groups. Outline the management of oral candidiasis.

(4+4+2 = 10 marks)

3. **Answer the following:**

3A Discuss the factors that determine the choice of an antimicrobial agent.

3B Comment on the mechanism of action and uses of cotrimoxazole.

3C Write briefly on the antibacterial spectrum and uses of erythromycin.

3D Enumerate the conditions in which tetracyclines are the drugs of first choice.

3E Discuss the treatment of neurocysticercosis.

3F Write briefly on slower acting intravenous general anesthetics.

3G Explain the adverse effects of chronic alcoholism.

3H Enumerate the alternatives to lithium in the treatment of mania. Write the disadvantages of lithium.

3I Compare and contrast: Diazepam and buspirone.

3J Explain four contraindications to the use of morphine.

3K Explain the treatment of diabetic ketoacidosis.

3L Explain the role of radioactive iodine in hyperthyroidism.

3M Explain four non-endocrine uses of glucocorticoids.

3N Write briefly on the methods, indications and adverse effects of post-coital contraception.

3O Explain the mechanism of action and uses of zolendronate.

(4 marks × 15 = 60 marks)



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Wednesday, February 17, 2021

Time: 14:20 – 17:00 Hrs.

Maximum Marks: 80

✍ Answer ALL the questions.

1. Classify antihypertensives. Explain the mechanism of action, therapeutic uses and adverse effects of enalapril.

(4+1+2+3 = 10 marks)

- 2A. Enumerate reversible anticholinesterase agents. Explain their therapeutic uses.
2B. Describe the features of organophosphorus compound poisoning and its drug treatment with rationale for their use

(2+3+2+3 = 10 marks)

3. Answer the following:

- 3A. Giving an indication explain the basis for the use of dopamine.
3B. Explain four factors modifying drug action
3C. Mention two drug combinations used in prophylaxis of angina and give the rationale for any one
3D. Explain the mechanism of action of any four drugs used in wide angle glaucoma
3E. Name two antithrombotic agents. Explain their mechanism of action
3F. Name two low molecular weight heparins. Explain their advantages over conventional heparin
3G. Define biotransformation. Mention any three phase II biotransformation reactions with examples
3H. Write briefly on pharmacovigilance
3I. Write briefly on mucolytics
3J. Classify H₁ blockers. List their therapeutic uses.
3K. Explain the mechanism of action and uses of omeprazole
3L. Write the various mechanisms of action with indications for antidiarrhoeal agents.
3M. Explain the mechanism of action of any four drugs used in bronchial asthma
3N. Explain four types of drug antagonism with an example for each
3O. Explain the mechanism of action and uses of spironolactone.

(4 marks × 15 = 60 marks)

