

MANIPAL ACADEMY OF HIGHER EDUCATION
SECOND MBBS DEGREE EXAMINATION – DEC'24/JAN'25
SUBJECT: PHARMACOLOGY – PAPER I (ESSAY)

(OLD REGULATION - 2018-19 & PRIOR BATCH)

Wednesday, January 01, 2025

Time: 10:20 – 13:00 Hrs.

Maximum Marks: 80

Answer ALL the questions.

- 1A. Explain three factors that modify drug action.
 1B. Explain any four methods of prolongation of drug action with examples. (6+4 = 10 marks)
2. A 30 yr old patient complaints of episodic breathlessness, often following exertion. One to three episodes occur daily and he wakes up at night with breathlessness on every 2-3 days. Spirometry revealed FEV1 to be 70% of predicted value at baseline. He was diagnosed to be a case of moderate bronchial asthma.
- 2A. Mention two long acting beta-2 agonists and two inhalational corticosteroids (ICS).
 2B. Explain two adverse effects of inhalational corticosteroids and write the rationale of combining inhalational corticosteroids with beta-2 agonists.
 2C. Outline the management of acute severe asthma (status asthmaticus). (2+2+2+4 = 10 marks)
3. **Answer the following:**
- 3A. Define Bioavailability. Explain any two factors that affect bioavailability.
 3B. Mention two safer antihypertensive drugs used in the treatment of hypertension in pregnancy. Explain the mechanism of action and two adverse effects of any one.
 3C. Name two anticholinesterases. Explain one use for each.
 3D. Mention two anticholinergic drugs. Explain three therapeutic uses of any one.
 3E. Write briefly on nasal decongestants.
 3F. Mention four drugs from different groups used in open angle glaucoma. Explain the mechanism of action of two drugs.
 3G. Mention two second generation antihistaminics. Mention any three differences over first generation antihistaminics.
 3H. Mention four drugs used in angina pectoris from different groups. Explain the basis of using any one.
 3I. Mention two angiotensin converting enzyme inhibitors. Explain their two uses.
 3J. Explain the mechanism of action and two uses of spironolactone.
 3K. Write short note on Dimercaprol.
 3L. Explain the mechanism of action and two uses of warfarin.
 3M. Mention two fibrinolytics. Explain two uses of anyone.
 3N. Explain the mechanism of action and adverse effects of metoclopramide.
 3O. Explain two uses of pantoprazole. Write triple drug regimen for *H.Pylori* infection. (4 marks × 15 = 60 marks)



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MANIPAL ACADEMY OF HIGHER EDUCATION
SECOND MBBS DEGREE EXAMINATION – JANUARY 2025
SUBJECT: PHARMACOLOGY – PAPER II (ESSAY)
(OLD REGULATION - 2018-19 & PRIOR BATCH)

Friday, January 03, 2025

Time: 10:20 – 13:00 Hrs.

Maximum Marks: 80

✍ Answer ALL the questions.

1. Explain two types of methods of female hormonal contraception with suitable examples. Explain the mechanism of action, adverse effects and other health benefits of any of them.
(4+2+2+2 = 10 marks)

2. A 25-year-old woman presented with cough with blood-stained sputum, evening rise of temperature and weight loss in the last one month. Sputum examination revealed acid fast bacilli which was sensitive to all first line agents.
 - 2A. Enumerate the first line antitubercular drugs.
 - 2B. Mention the characteristic adverse effects of each.
 - 2C. Outline the treatment regimen for this patient.(2+4+4 = 10 marks)

Answer the following:

- 3A. Classify semisynthetic penicillins with suitable examples.
- 3B. Compare and contrast: erythromycin and azithromycin.
- 3C. Write briefly on methotrexate.
- 3D. Mention two therapeutic uses and two adverse effects of metronidazole. Explain the interaction of metronidazole with alcohol.
- 3E. Write briefly on dipeptidyl peptidase 4 inhibitors.
- 3F. Compare and contrast: tetracycline and doxycycline.
- 3G. Write briefly on radioactive iodine.
- 3H. Explain the long-term adverse effects of corticosteroids.
- 3I. Enumerate four opioid analgesics. Mention two actions of opioids to which tolerance does not develop. Name two opioid antagonists.
- 3J. Explain the treatment of methanol poisoning.
- 3K. Classify general anesthetics with suitable examples.
- 3L. Explain the advantages of citalopram over imipramine.
- 3M. Explain the techniques of local anesthesia.
- 3N. Classify drugs used in Parkinson's disease.
- 3O. Write briefly on non-benzodiazepine hypnotics.

(4 marks × 15 = 60 marks)

