

Time: Three Hours**Max. Marks: 100 Marks****PHARMACOLOGY – PAPER II (RS-4)****Q.P. CODE: 1029****(QP contains two pages)**

Your answers should be specific to the questions asked

Draw neat, labeled diagrams wherever necessary

LONG ESSAYS**2 x 10 = 20 Marks**

1.
 - a) Classify Antihypertensive drugs.
 - b) Discuss the cardiovascular actions of Calcium channel Blockers
 - c) Enumerate the Uses of Calcium channel blockers
2. A 20 year old male reported to a hospital with fever, accompanied by chills and rigors, headache and fatigue. Blood smear examination shows presence of plasmodium Falciparum parasite. A diagnosis of //Falciparum// Flaciparum Malaria was made.
 - a) Classify Antimalarial drugs
 - b) Describe the mechanism of action, uses and adverse effects of Chloroquine

SHORT ESSAYS**8 x 5 = 40 Marks**

3. Mechanism of action and Adverse effects cyclophosphamide
4. A 34 year old woman is suffering from urinary tract infection. Urine culture report shows E. Coli infection which is sensitive to gentamicin
 - a) Explain the mechanism of action of gentamicin
 - b) Mention the adverse effects of gentamicin
5. Mechanism of action, Uses and adverse effects Bisphosphonates
6. Mechanism of action and Adverse effects of Sulphonylureas
7. Enumerate the therapeutic uses and Adverse effects of glucocorticoids
8. A married 28 year old lady having a 4 year old child is requesting for Oral contraceptive pill. Which type of oral contraceptive pill will you prescribe? What are the contraindications and adverse effects of oral contraceptive pills?
9. Mechanism of action, uses and adverse effects of Warfarin
10. Mention Four Thiazide diuretics. Enumerate the uses and adverse effects of thiazide diuretics?

SHORT ANSWERS**10 x 3 = 30 Marks**

11. Rationale of using Angiotensin converting enzyme Inhibitors (ACE Inhibitors) in Heart failure?
12. Name Three vitamin D preparations
13. Define chemoprophylaxis. Give two example
14. List three fibrates used as hypolipidemic agents
15. What is the rationale of using Metronidazole in Pseudomembranous enterocolitis
16. Mention three protease inhibitors used in HIV infection
17. Short course chemotherapy regimen for a newly diagnosed drug sensitive pulmonary tuberculosis
18. Rationale of combining Piperacillin with Tazobactam
19. Explain why orally administered Vit B12 is not effective in pernicious anemia
20. Write Three uses of Ivermectin

Multiple Choice Questions**10 x 1 = 10 Marks**

- 21 i) All the following drugs are used for treatment of Hypertensive emergencies **EXCEPT**
- Sodium Nitroprusside
 - Esmolol
 - Glyceryl Trinitrate
 - Adrenaline
- 21 ii) **Which of the following is an adverse effect streptokinase**
- Bleeding**
 - Infection
 - Respiratory Failure
 - Alopecia
- 21 iii) Propranolol is a suitable antihypertensive in patients with co-existing
- Anxiety
 - Peripheral vascular disease
 - Bronchial Asthma
 - Decompensated Heart failure
- 21 iv) Tranexamic acid is used to control bleeding **in**
- Epistaxis**
 - Heart Failure
 - Bronchial Asthma
 - Pneumonia
- 21 v) Prostaglandin analogue useful in the treatment of postpartum haemorrhage is
- Carboprost
 - Latanoprost
 - Alprostadil
 - Epoprostenol
- 22 i) Indication for Octreotide is
- Crohn's disease
 - Irritable bowel syndrome
 - Esophageal variceal bleeding
 - Ulcerative Colitis
- 22 ii) Which of the following inhibits bacterial cell wall synthesis?
- Vancomycin
 - Tetracyclines
 - Erythromycin
 - Streptomycin
- 22 iii) Combined use of Antimicrobials is indicated in all of the following conditions **EXCEPT**
- Ascariasis
 - Leprosy
 - HIV
 - Tuberculosis
- 22 iv) Oral vancomycin is indicated in the following condition
- Tuberculosis
 - Typhoid
 - Malaria
 - MRSA infection
- 22 v) Which antileprotic drug is indicated in lepra reaction
- Dapsone
 - Rifampin
 - Clofazimine
 - Minocycline
