

SRI DEVARAJ URS ACADEMY OF HIGHER EDUCATION AND RESEARCH
(A Deemed to be University)

MBBS Phase II Examination December 2024

Time: 180 Minutes

Max Marks: 80 Marks

Pharmacology Paper I

QP CODE: C2061

Your answer should be specific to the question asked

Draw neat labelled diagrams wherever necessary

Long Essay

10 × 2 = 20 Marks

1. Classify drugs used in hypertension. Explain mechanism of action, uses and adverse effects of ramipril (4+2+2+2)
2. Enumerate the drugs used in epilepsy. Explain the mechanism of action, uses and adverse effects of sodium valproate (4+2+2+2)

Short Essay

5 × 12 = 60 Marks

3. Explain advantages and disadvantages of transdermal patch with 2 examples (4+1)
4. Explain the term tolerance, toxicity, teratogenicity, side effect and photosensitivity with one example for each (1+1+1+1+1)
5. Explain mechanism of action and use of pralidoxime and atropine (2.5+2.5)
6. List four beta-2 agonists and write their uses and adverse effects (2+2+1)
7. List the differences between succinylcholine and pancuronium (5)
8. Explain mechanism of action of lignocaine. Explain eutectic mixture and write one use (2+2+1)
9. Explain the mechanism of action of drugs from different groups used in hyperlipidaemia (5)
10. Explain the uses and adverse effects of potassium sparing diuretics (3+2)
11. Explain the mechanism of action, uses and adverse effects of erythropoietin (1.5+2+1.5)
12. Explain treatment with rationale of each drug used in methyl alcohol poisoning (5)
13. Explain the mechanism of action, uses and adverse effects of thiopentone sodium (1+2+2)
14. Define pity, sympathy and compassion. Explain the significance of communication with family member of a sick patient (3+2)

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Pharmacology Paper II

QP CODE: C2062

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Long Essay

10 × 2 = 20 Marks

1. A 25-year-old male with type I diabetes mellitus was hospitalized and was on treatment for pneumonia for the past 4 days, following which he developed dehydration, hyperventilation and impaired consciousness. Investigations revealed fasting blood glucose 500mg/dl, bicarbonate level was 14mEq/L, pH 6.9 and ketonuria. (1+3+2+2+2)
 - a. State the probable diagnosis
 - b. Explain the treatment for the above condition
 - c. Explain the mechanism of action, other uses and adverse effects of the drug used in the management of this condition.
2. List the antimicrobials that inhibit cell wall synthesis. Explain therapeutic uses and adverse effects of penicillin G (4+3+3)

Short Essay

5 × 12 = 60 Marks

3. Explain the treatment of thyroid storm with the rationale for the use of each drug (2.5+2.5)
4. Explain the mechanism of action and one use of cinacalcet and teriperatide (2.5+2.5)
5. Explain bacterial drug resistance with examples (5)
6. Explain the mechanism of action, uses and adverse effects of doxycycline (2+2+1)
7. Mention drug regimen used for paucibacillary and multibacillary leprosy (2+3)
8. Explain the mechanism of action, therapeutic uses and adverse effects of chloroquine (2+2+1)
9. Explain the mechanism of action, uses and adverse effects of ganciclovir (2+2+1)
10. Classify drugs used in treatment of peptic ulcer and explain mechanism of action of any two group of drugs (3+2)
11. Explain the mechanism of action, uses and adverse effects of theophylline (2+2+1)
12. Explain the mechanism of action, uses and adverse effects of selective cyclooxygenase 2 (COX-2) inhibitors (1.5+2+1.5)
13. Explain the mechanism of action, uses and adverse effects of tacrolimus (2+2+1)
14. Explain the mechanism of action and adverse effects of amphotericin B. Mention the advantages of liposomal amphotericin B (2+2+1)