



**INSTRUCTIONS**

- There are **four** questions in the part A, B and C in SEQ paper.
- Answer **all** parts.
- No paper should be removed from the examination hall.
- Do not use any correction fluid.
- Use illustrations where necessary.

**PART A**

01.

- 1.1 List **five** causes of hypertension. (20 marks)
- 1.2 Name **six** compelling indications for antihypertensive therapy. State the antihypertensive treatment options in each indication. (30 marks)
- 1.3 Describe different stages of hypertension and state the treatment guidelines of blood pressure for each stage. (40 marks)
- 1.4 As a pharmacist what are the life-style modifications you suggest to a patient with hypertension. (10 marks)

02.

- 2.1 Name **four** joints that are commonly affected in rheumatoid arthritis. (10 marks)
- 2.2 List **three** clinical symptoms of rheumatoid arthritis. (15 marks)
- 2.3 Explain the pathophysiology of rheumatoid arthritis. (30 marks)
- 2.4 Describe the therapeutic options available for treatment of rheumatoid arthritis giving examples. (45 marks)

**PART B**

03.

- 3.1 Antiretroviral therapy is one of the fastest evolving areas of medicine in treating HIV infection. The specific details of treatment continue to change as new drugs emerge.
  - 3.1.1 Describe the principals of treatment in HIV infection. (30 marks)
  - 3.1.2 State the goals of therapy for HIV-positive individuals? (10 marks)
  - 3.1.3 State **five** drug categories used to treat HIV. Give **two** examples for each category. (25 marks)

3.2

3.2.1 Describe the types of risk factors associated with urinary tract infections.

(20 marks)

3.2.2 State **three** reasons for preponderance of urinary tract infections in females.

(10 marks)

3.2.3 State **three** intravenous treatments for lower urinary tract infections.

(05 marks)

## PART C

04.

4.1 Mr V, a 56-year-old man presented to a physician with bradikinesia, rigidity, resting tremor and postural instability. He was prescribed medicines. Two months after starting treatments, his wife informs Mr. V's physician that he is now spending huge sums of money on on-line casinos and they are getting into financial difficulties on account of this habit.

4.1.1 What is the most likely disease Mr. V is receiving treatment for?

(10 marks)

4.1.2 The doctor identified Mr. V's behavior as due to an adverse event of his treatment. Name the drug class which is most likely to be responsible for this patient's behavior.

(10 marks)

4.1.3 State **two** drugs which belong to this drug class?

(10 marks)

4.2 Describe the following aspects of metformin;

mode of action, selection of patients, side effects, cautions and preparations.

(40 marks)

4.3 List **three** medicines used for hyperthyroidism.

(15 marks)

4.4 List **three** inhalation glucocorticoids used for management of asthma.

(15 marks)

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