

# Question Paper

Exam Date & Time: 19-Apr-2023 (10:00 AM - 01:00 PM)



## MANIPAL ACADEMY OF HIGHER EDUCATION

Instructions: Answer ALL questions.

**Clinical Pharmacy [PPR 4.3T-S1]**

**Marks: 70**

**Duration: 180 mins.**

### Section A

**Answer all the questions.**

Long Answer Questions (3 x 10 marks = 30 marks)

- 1) Define drug utilization evaluation (DUE) and explain its procedure and the role of clinical pharmacist in DUE. (10)
- 2) Define drug information and describe the modified systematic approach to drug information designed by Host and Kirkwood. (10)
- 3) With the help of a neat figure explain pulmonary function tests with their normal ranges and clinical significance. (10)

### Section B

**Answer all the questions.**

Short Answer Questions (6 x 5 marks = 30 marks)

- 4) Describe different barriers to effective patient medication counselling and how to overcome them. (5)
- 5) Enumerate how drug information sources have been traditionally classified and explain any two sources. (5)
- 6) Describe thyroid function tests with their normal ranges and clinical significance. (5)
- 7) Explain the importance of recording the history of present illness and allergy information during patient data collection. (5)
- 8) Describe the steps to be taken when a medication error has been identified. (5)
- 9) Explain the mechanisms involved in Type B adverse drug reactions. (5)

### Section C

**Answer all the questions.**

Give Reasons for the Following (5 x 2 marks = 10 marks)

- 10) PRIME problems are a major concern while implementing pharmaceutical care. (2)
- 11) Detection of potential medication errors should be a component of the hospital's routine quality improvement process. (2)
- 12) Time perception plays a significant role in nonverbal communication. (2)
- 13) It is important to determine the causality of adverse drug reactions before reporting them. (2)
- 14) Type A adverse drug reactions are predictable. (2)

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