

Exam Date & Time: 07-Sep-2021 (02:00 PM - 05:00 PM)



## MANIPAL ACADEMY OF HIGHER EDUCATION

Manipal College of Pharmaceutical Sciences, Manipal MPharm Theory End-Semester Examinations.

### Principles of Disease Management [PMA-MPD201T]

Marks: 75

Duration: 180 mins.

#### SECTION - A

Answer all the questions.

Answer the following (10 marks x 5 = 50 marks)

- 1) Evaluate the relationship between normal ECG, conduction system and cardiac cycle. Analyse the pathophysiology that leads to arrhythmia (10)
- 2) How does a medical practitioner distinguish between rheumatoid and osteoarthritis? Highlight the differences in pathophysiology, diagnostic parameter and treatment regimen. (5 + 5) (10)
- 3) Construct a flow chart to explain the management of Type 2 Diabetes. Classify drugs used in the treatment of Type 2 Diabetes and describe the criteria for the diagnosis of diabetes mellitus. (10)
- 4) Discuss the pathophysiology of HIV infection. What laboratory tests are used to identify and confirm the condition? Classify the drugs available for its treatment. How do one monitor efficacy of the regimen? (3 + 3 + 2 + 2) (10)
- 5) Write a short note on Hodgkin's lymphoma. How does age alter the pharmacokinetic profile of a drug. Discuss with suitable examples. (5 + 5) (10)

#### SECTION - B

Answer all the questions.

Answer the following (5 marks x 5 = 25 marks)

- 6) Examine the role of dopamine in the pathogenesis of Parkinson's disease and drugs that modulate dopaminergic activity. (5)
- 7) A patient got admitted in the hospital with severe abdominal pain and cramping. He had a low grade fever and complained of decreased appetite. Endoscopy revealed ulceration and severe inflammation of the intestinal tract. Blood test helped to identify anemia with an elevation of c-reactive protein and platelet count. Anti-neutrophil polynuclear antibodies (ANCA) tested positive. What can the doctor conclude and how does he go ahead with treatment? (2 + 3) (5)
- 8) Construct a graph on changes in anterior pituitary and ovarian hormones in female reproductive cycle. Inspect the hormonal interactions in the ovarian and uterine cycle. (5)
- 9) An accident victim was admitted to the hospital with blunt force trauma to the eye. He complained of severe headache, eye pain with redness and tunnel vision. What diagnostic test should be performed to identify and confirm the condition he is (5)

suffering from?

10) Explain the applications of pharmacoepidemiology.

(5)

-----End-----