

# Question Paper

Exam Date & Time: 03-Jul-2023 (10:00 AM - 01:00 PM)



## MANIPAL ACADEMY OF HIGHER EDUCATION

II Year Pharm D University Examination May 2023

Pathophysiology [PPR 2.1T-S1]

Marks: 70

Duration: 180 mins.

### Section A

Answer all the questions.

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

- 1) Discuss the various complications of type 2 diabetes mellitus. (10)
- 2) Discuss the etiology and pathogenesis of Parkinson's disease. (10)
- 3) Explain the life cycle of the malarial parasite with the help of a diagram. (10)

### Section B

Answer all the questions.

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

- 4) Differentiate between apoptosis and necrosis. (5)
- 5) Explain the vascular events of acute inflammation. (5)
- 6) With the help of a neat diagram explain the life cycle of human immunodeficiency virus (HIV). (5)
- 7) List out the difference between benign and malignant tumour. (5)
- 8) Discuss the metabolic changes during starvation. (5)
- 9) Discuss the mode of transmission of various hepatitis viruses. (5)

### Section C

Answer all the questions.

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

- 10) Interferon- $\gamma$  plays important role in the pathogenesis chronic granulomatous inflammation. (2)
- 11) AL amyloidosis patients may have some form of plasma cell dyscrasia. (2)
- 12) Cytokines play important role in the pathogenesis of septic shock. (2)
- 13) Certain drugs can cause secondary hypertension. (2)
- 14) Women are more prone to develop UTI infection than men. (2)

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