

28 SEP 2020

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EXAMINATION DIVISION

THE OPEN UNIVERSITY OF SRI LANKA  
FACULTY OF HEALTH SCIENCES  
DEPARTMENT OF PHARMACY  
ACADEMIC YEAR 2019/2020 – SEMESTER I



BACHELOR OF PHARMACY HONOURS  
FMU4300 – PATHOPHYSIOLOGY – LEVEL 4  
FINAL EXAMINATION  
DURATION: THREE (3) HOURS

DATE: 28<sup>TH</sup> SEPTEMBER 2020

TIME: 9.30 A.M. – 12.30 P. M.

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**Part B – 4 Structured Essay Questions - 50 marks each (60% from the total will be taken)**

1.

1.1 Give two (2) examples each for the four types of hypersensitivity reactions as per the Coombs and Gell classification. (24 marks)

1.2 Name three (3) chemical mediators associated with type I hypersensitivity reactions.

(06 marks)

1.3 Briefly explain the pathogenetic mechanism of type I hypersensitivity reactions. (15 marks)

1.4 What is the main difference between hypersensitivity and autoimmunity? (05 marks)

2.

2.1. Name two (2) inherited bleeding disorders. (04 marks)

2.2. Briefly explain the causes of acquired bleeding disorders. (12 marks)

2.3. List four (4) blood components that are used in transfusions. (08 marks)

2.4. Briefly discuss the complications of blood transfusion. (26 marks)

3.

3.1. List four (4) precipitating factors of asthma. (04 marks)

3.2. Briefly describe the pathogenesis of asthma. (20 marks)

3.3. Name three (3) pathogens that cause pharyngitis. (06 marks)

3.4. Write a short note on emphysema. (20 marks)

4.

4.1. List five (5) symptoms of diabetes mellitus. (05 marks)

4.2. Briefly explain the complications of diabetes mellitus. (20 marks)

4.3. List five (5) clinical features of hyperthyroidism/thyrotoxicosis. (10 marks)

4.4. Briefly explain the outcomes of excess growth hormone secretion. (15 marks)