

**POSTGRADUATE INSTITUTE OF MEDICINE**  
**UNIVERSITY OF COLOMBO**

**MD (DERMATOLOGY) EXAMINATION – JANUARY 2021**

**Date :- 25<sup>th</sup> January 2021**

**Time:- 9.00 a.m. – 11.00 a.m.**

**WRITTEN EXAMINATION**

**S1 - PAPER I (THEORY I)**

Answer all four (04) questions.

Answer each question in a separate book.

1. Describe the structure and functions of the skin barrier.  
Name the most common chronic inflammatory skin disease that results from barrier dysfunction, and explain the mechanisms causing inflammation. (100 marks)
  
2.
  - 2.1. Draw and label vertical and horizontal sections of a normal hair shaft. (30 marks)
  - 2.2. Classify the causes of hair shaft abnormalities with examples. (30 marks)
  - 2.3. Briefly discuss two (02) well-known genetic hair shaft disorders with increased fragility. (40 marks)
  
3.
  - 3.1. Briefly describe three (03) characteristics of a Laser beam which differentiates it from a conventional light beam. (25 marks)
  - 3.2. Discuss the three (03) important parameters to be considered in selective photothermolysis. (36 marks)
  - 3.3.
    - 3.3.1. Mention three (03) indications for Laser treatment and the specific Lasers used for them. (18 marks)
    - 3.3.2. List three (03) possible complications of Laser treatment and three (03) measures you would take to minimize complications. (21 marks)

Contd...../2-

4.
  - 4.1. What immunological changes occur in pregnancy? (20 marks)
  - 4.2. Discuss how these changes influence skin diseases (excluding pregnancy dermatoses) and the pregnancy outcomes. (45 marks)
  - 4.3. Discuss the management of already established pemphigus vulgaris
    - 4.3.1. while trying to conceive. (05 marks)
    - 4.3.2. during pregnancy. (30 marks)

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**Time:-** 11.15 a.m. – 12.00 noon

**WRITTEN EXAMINATION**

**S1 - PAPER II (THEORY II)**

Answer all three (03) questions.

Answer each question in a separate book.

1. A 10-year-old previously well girl was admitted to hospital with a three-day history of fever and a maculopapular rash. A few hours after admission she went into severe protracted shock.

Investigations are as follows:

Dengue NS1Ag	Negative
FBC	
Neutrophil leucocytosis	
Platelet count	170 x 10 <sup>9</sup> /L
Haemoglobin	8 g/dL
CRP	120 mg/L
ESR	80 mm/1 hour
Serum electrolytes	Hyponatraemia
Serum creatinine	Normal

- 1.1. Mention three (03) possible differential diagnoses. (30 marks)
- 1.2. Mention one (01) feature in the history/examination in each condition to support your diagnosis. (30 marks)
- 1.3. Mention one (01) investigation to support the most likely diagnosis and give its specific treatment. (40 marks)

Contd..../2-

2. A physically fit 55-year-old man, six years after kidney transplant, is complaining of a pigmented spot over proximal nail of left big toe for past three weeks.

2.1. List (04) differential diagnoses for above scenario mentioning one (01) important clinical feature in each. (60 marks)

2.2. Mention two (02) bed side tests or investigations you would perform to confirm your diagnoses. (20 marks)

2.3. Mention a salient finding of two (02) relevant investigations/bed side tests for one (01) condition. (20 marks)

3. A 35-year-old mother of one child, with a recent stroke was referred to the Dermatology unit for a persistent skin rash of 6 months duration.

On examination an asymptomatic erythematous, annular, reticulated rash was observed over her lower back, buttocks, thighs and legs. Her blood pressure was 130/90 mmHg.

3.1. Mention three (03) conditions for this clinical picture. (30 marks)

3.2. Write two (02) clinical features you would observe in each condition. (45 marks)

3.3. List five (05) investigations that would help in the management. (25 marks)