

Master Copy

POSTGRADUATE INSTITUTE OF MEDICINE
UNIVERSITY OF COLOMBO

MD (DERMATOLOGY) EXAMINATION – JANUARY 2019

Date:- 28th January 2019

Time :- 1.00 p.m. – 3.00 p.m.

WRITTEN EXAMINATION

PAPER I – LONG QUESTIONS

Answer all four (04) questions.

Answer each question in a separate book.

1. Describe the mechanisms by which *Mycobacterium leprae* causes tissue damage in leprosy. (100 marks)

2.
 - 2.1. Define biologics and biosimilars and compare both to conventional drugs. (22 marks)
 - 2.2. List three (03) advantages and three (03) disadvantages of biologic therapy. (24 marks)
 - 2.3. Outline the mechanism of action of a currently recommended biologic agent for each disease listed below. Briefly mention the class of biologic used. (Each biologic can be mentioned only once). (54 marks)
 - 2.3.1. Plaque psoriasis
 - 2.3.2. Atopic dermatitis
 - 2.3.3. Pemphigus vulgaris
 - 2.3.4. Hidradenitis suppurativa
 - 2.3.5. Melanoma
 - 2.3.6. Chronic urticaria

3.
 - 3.1. What are the four (04) main clinical categories of chronic itch? Give clinical example(s) for each. (40 marks)
 - 3.2. Name important mediators of itch and their corresponding receptors in the skin. (20 marks)
 - 3.3. Explain the pathways that transmit itch stimulus to the central nervous system. (40 marks)

4.
 - 4.1. Briefly outline the immunopathogenic mechanisms of “Severe Cutaneous Adverse Drug Reactions” (SCAR) (40 marks)
 - 4.2. What steps would you follow to identify the offending agent/agents in a Severe Cutaneous Adverse Drug Reaction? (30 marks)
 - 4.3. List the specific therapeutic options for Toxic Epidermal Necrolysis with a short explanation of mode of action of each. (30 marks)

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WRITTEN EXAMINATION

PAPER II – STRUCTURED TYPE

Answer all three (03) questions.

Answer each question in a separate book.

1. A 10-month-old child was admitted with generalized red scaly eruption for 2 weeks duration. There is a history of chronic skin rash since the first month of life. Examination revealed generalized scaling and erythema.
 - 1.1. What is this clinical entity? Give five (05) possible underlying causes for the above clinical entity. (40 marks)
 - 1.2. Choose three (03) conditions from the above causes and give three (03) important diagnostic clinical features for each condition. (45 marks)
 - 1.3. Mention three (03) simple tests which would help to arrive at a diagnosis. (15 marks)

2. A 35-year-old female presented with itchy papules and vesicles on her body for two years. She also complains of chronic diarrhoea and weight loss for the past 9 months.

Investigations

Hb	9.5 g/dL
ESR	8 mm 1 st hour
FBS	146 mg/dL

- 2.1. Mention three (03) causes for her illness. (15 marks)
- 2.2. Mention two (02) specific investigations you would consider in this patient mentioning the relevance of each. (30 marks)
- 2.3. Outline the management of the most likely underlying condition. (55 marks)

3. A 45-year-old male with poorly controlled diabetes presented with left sided upper facial redness, swelling, fever and headache of two days duration. One day later, the left side of his forehead, periorbital region and left cheek became purplish with increased swelling.
No history of preceding trauma/insect bites.

- 3.1. List three (03) differential diagnoses that you would consider.
(30 marks)
- 3.2. Write necessary investigations and their findings that would help in diagnosing each condition.
(45 marks)
- 3.3. Outline the management of one (01) condition mentioned in 3.1.
(25 marks)