



# MERU UNIVERSITY OF SCIENCE AND TECHNOLOGY

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## University Examinations 2023/2024

FOURTH YEAR FIRST SEMESTER EXAMINATION FOR THE DEGREE OF BACHELOR  
OF CLINICAL MEDICINE AND COMMUNITY HEALTH

### CCM 3332: DERMATOLOGY

DATE: APRIL 2024

TIME: 3 HOURS

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#### INSTRUCTIONS:

Answer *All* questions

Ensure that all your answers are properly numbered

Part I multiple Choice Questions (MCQ): Write the correct answer on the space provided in the answer booklet. Each MCQ is one mark

Part II: Short Answer Questions – Answer questions following each other on the answer booklet

Part III: Long Answer Questions – Answer each question on the answer booklet

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#### SECTION A: MULTIPLE CHOICE QUESTIONS; CHOOSE ONE ANSWER

- 1) Which one is true about erythrasma?
    - a) Wood lamp exam shows coral red appearance
    - b) Socially isolating odor
    - c) Affects weight bearing areas
    - d) Lesions are punctiform depressions
  - 2) The following is not true about impetigo
    - a) Infection commonly affects the dermis
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- b) Atopy is a risk factor
  - c) Non bullous impetigo is caused by staphylococcus aureus
  - d) Bullous impetigo is caused by exfoliative toxins of by staphylococcus aureus
- 3) Which is not a feature of the acute phase of herpes zoster?
- a) Patchy erythema
  - b) Pain
  - c) Iritis
  - d) Myalgia
- 4) True about fungal skin infection:
- a) Trichomycosis is infection of the hair apparatus
  - b) Microsporum canis is transmitted person to person
  - c) Trichophyton rubrum and Trichophyton tonsurans are the most common dermatophytes
  - d) Intertrigo is caused by Trichophyton rubrum
- 5) Drugs recommended to treat cutaneous candidiasis does not include:
- a) Terbinafine
  - b) Nystatin
  - c) Itraconazole
  - d) Imidazole cream
- 6) Nail changes in psoriasis exclude:
- a) Koilonychia
  - b) Oil spot
  - c) Nail loosening
  - d) Lines going across nails
- 7) Features of lichen planus include:
- a) sharply marginated erythematous papule
  - b) silver-white scales
  - c) Koebner phenomenon

- d) Scales easily removed by scratching
- 8) Which one is not a bullous lesion?
- a) pemphigus
  - b) bullous pemphigoid
  - c) 1<sup>st</sup> degree burns
  - d) Psoriasis
- 9) The following are factors that can cause herpes simplex recurrence except?
- a) Teenage hood
  - b) Ultraviolet radiation
  - c) Stress
  - d) Hormonal fluctuations
- 10) Which is the most common type of dermatitis:
- a) Atopic dermatitis
  - b) Seborrheic dermatitis
  - c) Contact dermatitis
  - d) Dyshidrotic dermatitis
- 11) Complications of Atopic dermatitis does not include:
- a) Keratoconus
  - b) Visual impairment
  - c) predisposition to basal cell carcinoma
  - d) Eczema herpeticum
- 12) What is the infective agent implicated in acne?
- a) Staphylococcus aureus
  - b) Streptococcus pyogenes
  - c) Staphylococcus epidermidis
  - d) Propionibacterium acnes
- 13) What are the histological findings of psoriasis?

- A Inflammation of the dermal-epidermal junction
- B Peripheral palisading of basal cells
- C Acanthosis, Parakeratosis and Munro microabscesses
- D Keratin pseudocysts

14) Treatment for molluscum contagiosum does not include?

- a) Cryosurgery
- b) Trichloroacetic acid 80%.
- c) Imiquimod
- d) penciclovir

15) Which is not a risk factor for pitted keratolysis

- a) Prolonged exposure to water
- b) Hypohidrosis.
- c) Boots or sports shoes
- d) Hot and humid environment

16) Which one of the following is a sub corneal blistering disease?

- a) Dermatitis herpetiformis
- b) Linear IgA disease
- c) Pemphigus foliaceus
- d) Pemphigus vulgaris

17) True about bullous pemphigoid:

- a) a) predilection for medial surface of thigh
- b) autoimmune reaction to desmogleins
- c) young patients affected
- d) Nikolsy's sign positive

18) Subepidermal blistering diseases include the following except:

- a) Bullous pemphigoid
- b) Dermatitis herpetiformis

- c) Linear IgA disease
- d) Pemphigus vegetans

19) Classification of Kaposi sarcoma does not include:

- a) Nosocomial
- b) African-Endemic
- c) Iatrogenic
- d) HIV associated

20) What skin condition is caused by poxvirus?

- a) Verruca
- b) Molluscum contagiosum
- c) Impetigo
- d) Cellulitis

**SECTION B: SHORT ANSWER QUESTIONS (40 marks)**

- 1) Define papule, patch, pustule, crusts and ulcer and list one differential of each. (5 marks)
- 2) Classify and give examples of infectious skin dermatoses. (5 marks)
- 3) Classify blistering diseases and examples of each (5 marks)
- 4) a) List two laboratory investigations done for superficial mycosis (2 marks)  
b) Outline 3 medications used for treatment of tinea capitis (3 marks)
- 5) Describe the clinical presentation of lichen planus (5 marks)
- 6) Outline the etiology of atopic dermatitis. (5 marks)
- 7) List five differential diagnosis for Staphylococcal scalded skin syndrome (5 marks)
- 8) Classify complications of herpes zoster and list one example of each. (5 marks)

**SECTION C: LONG ANSWER QUESTIONS (40 marks)**

- 1) A 42-year-old man with painful vesicular lesions limited on the left side of the body trunk that don't cross the midline comes to your clinic. Some lesions are oozing pus and he has been having fevers.

- a) List 5 risk factors for the above disease (5 marks)
- b) Outline the treatment of this case. (5 marks)
- 2) A dermatologist describes the lesions on the face of a 17-year-old boy as popular pustular with comedones:
- a) What is the most likely diagnosis (2 marks)
- b) What is the pathogenesis (3 marks)
- c) Outline the treatment options of (5 marks)
- 3) A brother and sister aged 4 and 7 years come to your clinic complaining of very itchy papules, you notice some burrows on the skin. Itchiness is worse at night.
- a) What is the most likely diagnosis? (2 marks)
- b) What is the causative agent? (2 marks)
- c) What are the other clinical features of this? (3 marks)
- d) List 3 drugs used in the treatment (3 marks)
- 4) 20-year-old man of black ethnicity was born with, yellow hair, eyes half closed and squinting when in sunlight and the iris translucent comes to your clinic with a sunburn.
- a) What is the most likely diagnosis? (2 marks)
- b) What is the etiology of the condition above (3 marks)
- c) Discuss management of the condition in (a) (5 marks)