



Quiz

Fundamentals and Foundations in Dermatology – Quiz

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Quick Response Code:



QUESTIONS

- Pertinax bodies are seen inside
 - Keratinocytes
 - Onychocytes
 - Trichocytes
 - Koilocytes
- Autotaxin plays an important role in itch associated with
 - Atopic dermatitis
 - Cholestasis
 - Uraemia
 - Amyloidosis
- The fundamental three-dimensional structure of keratinocytes in the stratum corneum and stratum granulosum, as shown by scanning electron microscopy and immunofluorescent microscopy, is
 - Truncated octahedron
 - Icosahedron
 - Triacontahedron
 - Tetrakaidecahedron
- The type II Keratin expressed in hair matrix is
 - K75
 - K76
 - K85
 - K86
- The 'perivascular extravasation unit' is located around
 - Precapillary arterioles
 - Capillaries
 - Post-capillary venules
 - Papillary loops
- The microbiome of antecubital fossa in healthy individuals is formed majorly by
 - Malassezia* and *Actinobacteria*
 - Malassezia* and *Proteobacteria*
 - Ascomycetes* and *Bacteroidetes*
 - Ascomycetes* and *Firmicutes*

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7. All are X-linked dominant disorders except:
 - a) Conradi-Hunermann-Happle syndrome
 - b) Incontinentia pigmenti
 - c) Focal dermal hypoplasia
 - d) Wiskott-Aldrich syndrome
8. All the following transcription factors are important for development, migration and survival of melanocytes except
 - a) MITF
 - b) KIT
 - c) SOX10
 - d) PAX3
9. The most common cyclobutene pyrimidine dimer (CPD) responsible for ultraviolet (UV-B) induced carcinogenesis is
 - a) CC-CPD
 - b) CT-CPD
 - c) TC-CPD
 - d) TT-CPD
10. The resident memory CD8+ T-cells reside in
 - a) Epidermis
 - b) Papillary dermis
 - c) Reticular dermis
 - d) Hypodermis
11. The central regulator of epithelial identity is
 - a) Beta-catenin
 - b) p63
 - c) BMP
 - d) SHH
12. Granular keratinocytes are defective in
 - a) Epidermolytic hyperkeratosis
 - b) Ichthyosis bullosa of Siemens
 - c) Ichthyosis hystrix
 - d) Epidermolysis bullosa simplex
13. Which of the following has the least contribution to the total skin surface lipids?
 - a) Triglycerides
 - b) Wax esters
 - c) Squalene
 - d) Cholesterol
14. Which of the following quality reporting tools is not used for systematic reviews/meta-analysis?
 - a) AMSTAR
 - b) OCEBM
 - c) PRISMA
 - d) QUOROM
15. The effectiveness of an intervention is measured by all except:
 - a) Explanatory studies
 - b) Pragmatic studies
 - c) Large simple studies
 - d) Peto studies
16. TGF-beta can be upregulated by all except
 - a) TNF-alpha
 - b) UV-B
 - c) Lipopolysaccharide
 - d) Retinoic acid
17. The number of pathophysiological reactive units in the skin are
 - a) 1
 - b) 2
 - c) 3
 - d) 4
18. The minimum punch size required for biopsy in a suspected case of panniculitis is
 - a) 4
 - b) 5
 - c) 6
 - d) 7
19. Which of the following is not a constituent of Michel's medium?
 - a) Ammonium sulphate
 - b) N-ethyl maleimide
 - c) p-ethyl maleimide
 - d) Magnesium sulphate
20. The level of split in friction blister is
 - a) Granular layer
 - b) Spinous layer
 - c) Suprabasal
 - d) Subepidermal
21. Depending on the anatomic component(s) primarily involved, nodules are of
 - a) 2 types
 - b) 3 types
 - c) 4 types
 - d) 5 types
22. Who described the basic morphological terms for fundamental skin lesions?
 - a) Robert Willian
 - b) Thomas Bateman
 - c) Daniel Turner
 - d) Louis Alibert
23. The initial molecules to reach the viable skin layers following the application of a topical drug formulation diffuse through
 - a) Transcellular pathway
 - b) Intercellular pathway
 - c) Follicular pathway
 - d) Eccrine pathway

24. Senear-Caro ridge is seen in
- Psoriasis
 - Lichen planus
 - Palmoplantar keratoderma
 - Porokeratosis
25. In which form of teledermatology, the primary healthcare provider communicates with a dermatologist?
- Primary
 - Secondary
 - Tertiary
 - Patient assisted
26. Fluorescence-advanced videodermatoscopy has a wavelength of
- 364 nm
 - 400 nm
 - 405 nm
 - 464 nm
27. The sweat gland placodes are formed at what gestational age (in weeks)?
- 9
 - 10
 - 12
 - 14
28. The major protein in stratum corneum is
- Filaggrin
 - Involucrin
 - Loricrin
 - Envoplakin
29. Identify the Noyes–Whitney equation
- $kp = D \cdot K_{se}/v/h$
 - $\log kp = -2.7 + 0.71 \cdot \log P - 0.0061 \cdot MW$
 - $J_{max} = kp \cdot C_{v,sat}$
 - $dC/dt = D \cdot A \cdot K_{w/o} (C_s - C_b)/v \cdot h$
30. Cells within the Huxley layer that extend through the Henle layer and attach directly to the companion layer are referred to as
- Fluegelzellen or wing cells
 - Tadpole cells
 - Brush cells
 - Lozenge cells

ANSWERS

- b^[1]
- b^[2]
- d^[3]
- c^[4]
- c^[5]
- a^[6]
- d^[7]
- b^[8]

- d^[9]
- a^[10]
- b^[11]
- b^[12]
- d^[3]
- b^[13]
- a^[13]
- a^[14]
- c^[15]
- c^[15]
- c^[16]
- b^[15]
- d^[17]
- a^[18]
- b^[19]
- a^[20]
- b^[21]
- c^[22]
- c^[11]
- a^[3]
- d^[23]
- a^[4]

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Declaration of patient consent

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