MEDICAL EXAMINATION REVIEW BOOK

VOLUME 21

Dermatology

Third Edition

1200 Multiple Choice Questions And Referenced Explanatory Answers

DENNIS A. WEIGAND, M.D.

Medical Examination Review Book

VOLUME 21

DERMATOLOGY

third edition

1,200 MULTIPLE CHOICE QUESTIONS AND EXPLANATORY ANSWERS REFERENCED TO TEXTBOOKS AND JOURNALS

MEDICAL BOOKS

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PREFACE

In compiling this board examination review book, the author has sought to fulfill two needs: first, to familiarize the reader with the types of questions he will encounter on the written examination of the American Board of Dermatology, and second, to provide a comprehensive, referenced study of recent dermatologic literature. Realizing the difficulties involved in writing really good objective questions, the author has tried to avoid those for which few facts would be available. However, controversy alone should not preclude a question from such an examination, since the ability to evaluate the sides of a controversy is part of being a medical scientist. Obviously, the author has tried to ensure that the answers given for the questions are the correct ones, or that they accurately reflect the views expressed in the literature cited. However, the reader must not be satisfied with just finding the correct responses on the answer pages. He must, from that starting point, do what is necessary to review and reinforce his comprehension of the various topics.



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I. ANATOMY, PHYSIOLOGY, AND BIOCHEMISTRY

For each of the following multiple choice questions, select the one best answer:

- Langer's cleavage lines are caused by:
 - A. Aging
 - B. Actinic degeneration
 - C. Muscular tension
 - D. Elastic tension
 - E. Collagen tension
 - Ref. 185 p. 13
- The cutaneous 'lines' produced by muscular tension and decreased elasticity are:
 - A. Wrinkles
 - A. Wrinkles
- D. Langer's lines
- B. Dermatoglyphics
- E. Flexure lines
- C. Mast cells
- Ref. 185 pp. 5-6
- Prostaglandins of human skin are synthesized in:
 - A. Capillaries
- D. Histiocytes
- B. Venules

- E. Epidermal cells
- C. Mast cells
- Ref. 318 pp. 377-385
- A typical early (about 8 hours) response to epidermal injury is:
 - A. Glycogen depletion
 - B. Glycogen accumulation
 - C. Shrinkage of basal cells
 - D. Increased numbers of mitoses
 - Ref. 185 p. 46
- The presence of glycogen and the process of keratinization are:
 - A. Directly related
- C. Unrelated
- B. Inversely related
- D. Incompatible
- Ref. 185 p. 46
- 6. The absence of light below 290nm at the earth's surface, from solar radiation, is due to:
 - A. Inability of this light to traverse great distances
 - B. Atmospheric ozone and other gases
 - C. Absence of this light from the solar spectrum
 - D. Water vapor
 - E. The van Allen belt

Ref. 166 - p. 9

8 / Anatomy, Physiology, & Biochemistry

- 7. When keratinocytes are stimulated to migrate up through the epidermis, e. g., by stripping off the stratum corneum, the desmosomes:
 - A. Remain intact
 - B. Completely disintegrate
 - C. Divide into half-desmosomes
 - D. Retract into one or the other contiguous cell

Ref. 182 - pp. 89-102

- The site of essentially all mitoses in normal epidermis is: 8.
 - A. Basal layer

C. Lower spinous layer

B. Rete ridges

D. Malpighian layer

Ref. 159 - p. 9

- In normal epidermis, movement of a cell from the basal layer 9. into the spinous layer is requisite to its:
 - A. Proliferative capacity
 - B. Differentiation
 - C. Survival
 - D. None of the above

Ref. 108 - pp. 131-132

10. The definitive organelle of the melanocyte is the melanosome. and the definitive organelle of the melanophage is the:

A. Premelanosome

C. Mitochondrion

B. Melanophore

D. Lysosome

Ref. 181 - pp. 70-75

- 11. Which of the following characterizations of tumor angiogenic factor is untrue?
 - A. Protein of about 100,000 molecular weight
 - B. Produced by tumor cells
 - C. Action mediated by IgG
 - D. Diffuses 2 to 5 mm from the tumor
 - E. Induces formation of new blood vessels

Ref. 329 - p. 96

- The follicles in which acne lesions develop generally contain: 12. D. A terminal hair
 - A. Only sebum

B. No hair

E. Only keratin

C. A vellus hair

Ref. 116 - p. 354

13. In the contraction of full thickness wounds of the skin, the force responsible resides in the:

- A. Granulation tissue
- B. Wound edges
- C. Skin peripheral to the wound
- D. Regenerating epithelium

Ref. 127 - p. 228

- 14. In healing of superficial (into but not through dermis) wounds of the skin:
 - A. Mitosis is the primary event, preceding migration
 - B. The advancing epithelium moves at a level determined by the depth of surface drying of the wound
 - C. Epithelial coverage is more rapid with dry than with moist wounds
 - D. Dermal regeneration precedes epidermal regeneration Ref. 298 pp. 126-127
- 15. Normally, most of the epidermal cell replication cycle is occupied by:
 - A. G1 phase

D. M phase

B. S phase

E. None of these

C. G2 phase

Ref. 313 - p. 33

- 16. Penetration of skin by ultraviolet light is:
 - A. Greater for longer wavelengths than for shorter wavelengths
 - B. Greater for shorter wavelengths than for longer wavelengths
 - C. Unrelated to wavelength
 - D. Negligible

Ref. 28 - p. 453

- 17. Cutaneous barrier function is largely attributable to the:
 - A. Surface lipid film

D. Stratum granulosum

B. Stratum corneum

E. Basement membrane

C. Stratum lucidum

Ref. 145 - p. 387

- 18. Mucous membrane is generally more permeable than skin because it lacks:
 - A. Keratin
 - B. A surface lipid film
 - C. A stratum corneum
 - D. Pilosebaceous follicles

Ref. 145 - p. 397

- 19. Normal human scalp hair grows at a daily rate of about:
 - A. 0.1 mm

C. 1.0 mm

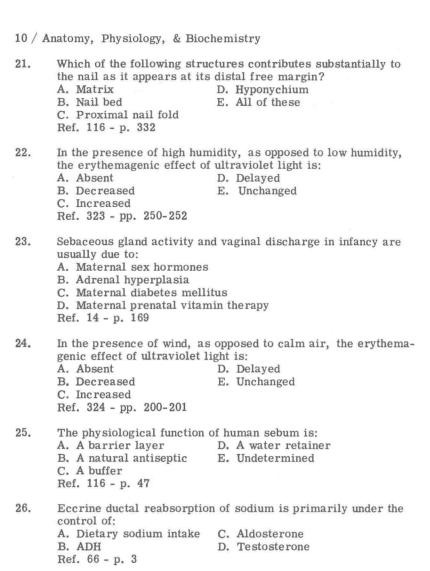
B. 0.35 mm

D. None of these

Ref. 185 - p. 174

- 20. The alopecia commonly seen in the first few months of life is caused by:
 - A. Loss of hair synchronized in telogen phase at birth
 - B. Telogen effluvium secondary to the trauma of childbirth
 - C. Hereditary predisposition
 - D. Local trauma
 - E. Seborrheic dermatitis

Ref. 14 - p. 169



Deficient repair of UV light-induced DNA damage in xero-

derma pigmentosum is seen:

C. In a minority of casesD. Only in fibroblastsE. Only in epidermal cellsRef. 326 - pp. 150-155

A. In all cases
B. In most cases

27.

- 28. Normal human eccrine function is:
 - A. Sympathetic adrenergic
 - B. Sympathetic cholinergic
 - C. Parasympathetic adrenergic
 - D. Parasympathetic cholinergic

Ref. 185 - p. 364

- 29. The primary pathogenetic event in all forms of miliaria is:
 - A. Bacterial infection
- C. Ductal leakage

B. Poral occlusion

D. None of these

Ref. 164 - pp. 460-461

- 30. Cold vasodilatation occurs in the acra when the environmental temperature is lowered to about:
 - A. 35°C

D. 5°C

B. 25°C

E. 00C

C. 15°C

Ref. 244 - pp. 5-9

- 31. The necrosis of cold injury is a direct result of:
 - A. Thrombosis due to venular stasis and hemoconcentration
 - B. Ischemia due to arterial spasm
 - C. Hemorrhage
 - D. Capillary constriction

Ref. 153 - pp. 484-495

- 32. The lunula is:
 - A. A hypovascular area
 - B. A parakeratotic area
 - C. An area of increased nail plate thickness
 - D. The visible part of the matrix
 - E. Caused by air spaces in the nail plate

Ref. 116 - p. 331

- 33. Communication between proliferating cells for the purpose of growth control is a direct function of the:
 - A. Nucleus
 - B. Nucleolus
 - C. Endoplasmic reticulum
 - D. Centrioles
 - E. Plasma membrane

Ref. 331 - pp. 232-233

- 34. Fluorouracil inhibits DNA synthesis by:
 - A. Transfer RNA blockage
 - B. Dihydrofolate reductase blockage
 - C. Thymidylate synthetase blockage
 - D. Adenylcyclase blockage
 - E. None of these

Ref. 112 - p. 132

- 12 / Anatomy, Physiology, & Biochemistry
- 35. The action spectrum of light in the porphyrias peaks at about:
 - A. 254 nm

D. 380 nm E. 405 nm

B. 290 nm C. 305 nm

Ref. 330 - pp. 15-16

- 36. Which of the following is not a precursor of heme?
 - A. Delta-aminolevulinic acid D. Uroporphyrinogen III

E. Coproporphyrinogen III

B. Porphobilinogen

C. Uroporphyrinogen I Ref. 116 - p. 1146

- 37. Human epidermal metabolic pathways include:
 - A. Phosphorylation
 - B. Glycolysis
 - C. Krebs cycle
 - D. Hexose monophosphate shunt
 - E. All of these

Ref. 68 - pp. 1024-1025

- 38. In psoriasis, the changes in epidermal enzymes of carbohydrate metabolism are best characterized as representing:
 - A. An abnormal Krebs' cycle
 - B. Abnormal glycolysis
 - C. Abnormal fatty acid synthesis
 - D. General reorganization to favor the process of cell production

Ref. 110 - p. 67

- 39. Phenolic germicides may cause cutaneous depigmentation by:
 - A. Inhibition of tyrosine formation
 - B. Inhibition of tyrosine oxidation
 - C. Inhibition of melanin oxidation
 - D. Inhibition of cytocrine action
 - E. Destruction of all melanocytes

Ref. 210 - p. 261

- 40. Prostaglandins are:
 - A. Polypeptides
 - B. Long chain fatty acid derivatives
 - C. Glycosaminoglycans
 - D. Steroid compounds
 - E. Polyhydric alcohols

Ref. 174 - p. 102

- 41. The main visible effect of intradermally injected prostaglandins is:
 - A. Brief ervthema and edema
 - B. Prolonged erythema and edema

- C. Piloerection
- D. Diaphoresis
- E. Pronounced vasoconstriction

Ref. 174 - p. 101

- 42. The bulk of subcutaneous fat is:
 - A. Triglycerides of long chain fatty acids
 - B. Made by the lipocytes from activated acetate and glycerol phosphate
 - C. Available for use in energy production
 - D. All of these

Ref. 25 - p. 1497

- 43. Eyebrows may appear not to regrow after shaving because:
 - A. Their growth rate is extremely slow
 - B. Their telogen phase is relatively long
 - C. Shaving damages the matrix
 - D. Shaving induces the telogen phase
 - E. None of the above is true

Ref. 116 - p. 299

- 44. The underlying abnormality in papular mucinosis (lichen myxedematosus) is:
 - A. Hyperthyroidism
- C. Mycosis fungoides
- B. Hypothyroidism

D. Dysproteinemia

Ref. 128 - pp. 153-166

- 45. The epidermal cell turnover rate on the scalp in dandruff is:
 - A. Increased
- D. Undetermined
- B. Decreased
- E. Of no significance

- C. Normal
- Ref. 257 p. 406
- 46. In psoriasis, the epidermal cell replication cycle lasts about:
 - A. 1 hour
 - B. 8 hours

D. 7 days

C. 37.5 hours

E. 19 days

Ref. 313 - pp. 33-34

For each of the following multiple choice questions, there may be no correct answer, or there may be one or more correct answers. Select those answers which you think are correct:

- 47. Oriented smooth muscle fibers in the dermis are characteristic of:
 - A. Scrotum

D. Perineum

B. Penis

E. All of these

C. Areola

Ref. 185 - p. 1