

# Histology MCQs/Mock Credit Test B

Mock credit test. Only one answer is correct, minimal score is 18 points.

- 1** Which technique is the best for proof of elastic fibers?
  - silver impregnation
  - Masson's trichrome
  - orcein
  - AZAN
- 2** Which structure is staining by dyes of Sudan line/family/group?
  - mucopolysaccharides
  - neutral lipids
  - glycogen
  - DNA
- 3** Microtubules:
  - are composed of tubuline pentamers
  - are composed of actin pentamers
  - are composed of tubuline dimers
  - are composed of actin dimers
- 4** Dyneins:
  - are stabilizing proteins associated with intermediate filaments
  - are motor proteins associated with intermediate filaments
  - are stabilizing proteins associated with microtubules
  - are motor proteins associated with microtubules
- 5** Mitochondria:
  - contain circular DNA without genetic information
  - contain linear DNA without genetic information
  - contain circular DNA with genetic information
  - contain linear DNA with genetic information
- 6** Kinocilia:
  - their main cytoskeleton is of microtubules
  - their motor protein is a kinesin
  - are immotile (=no main movement)
  - are on basal pole of the cell
- 7** Serous cells
  - their nucleus is condensed
  - takes place in the pancreas only
  - are a kind of fibroblasts
  - produce enzymes
- 8** Basal labyrinth:
  - takes place in neighborhood of the terminal web
  - is the same structure as the basal striation
  - contains cisterns of Golgi apparatus
  - is strongly basophilic
- 9** Brush border:
  - is common structure in stratified squamous epithelium



Leonid Pasternak (1862-1945): Night Before Exam

- main function is transportation of layer of mucus
- contains numerous mitochondria
- is composed of microvilli

**10** Basal membrane contains:

- type I collagen
- type II collagen
- type II collagen
- type IV collagen

**11** Which of following cell adhesion does not take place in the intercalated disc?

- zonula occludens
- fascia adherens
- gap junction
- desmosome

**12** Histiocytes:

- are tissue macrophages
- are stem cells
- produce histamine
- produce heparin

**13** Hyaline cartilage:

- does not contain type II collagen
- has no fibrillary component of ECM
- has no vessels (=is avascular)
- has no perichondrium

**14** Elastic fibers:

- are composed of elastin and type III collagen
- are composed of elastin and type II collagen
- are composed of elastin and fibrillin
- are composed of elastin only

**15** Destruction of bones:

- precursors of bone-destroying cells are produced in the bone marrow
- main bone-destroying cells are activated osteocytes
- does not start before the bird
- is pathological in adult body

**16** Osteoid:

- is ECM of actually destroyed bone in which was dissolved an inorganic part
- is a cartilaginous model of the bone during chondrogenic ossification
- is ECM of newly produced bone without an inorganic part
- is other name for the primary bone

**17** Brown adipose tissue:

- adipocytes has short life-span
- is mainly storage of energy
- adipocytes are multilocular
- is avascular

**18** Proteoglycans

- are supramolecular aggregates composed mainly of hyaluronic acid
- are composed of a core protein and glycosaminoglycans
- are composed of a core protein and oligosaccharides
- are composed of a core protein and polysaccharides

**19** Reticular connective tissue:

- does not take place inside the lymph node
- special staining is Feulgen's stain
- reticular fibers are PAS positive
- takes place inside the thymus

**20** Where takes place dense regular connective tissue?

- wall of the intestine
- wall of the stomach
- under epidermis
- in tendon

**21** Which part of troponine binds calcium?

- TnC
- TnI
- TnT
- none of them

**22** Sarcomere:

- is part of myofibril between two A bands
- is part of myofibril between two M bands
- is part of myofibril between two T tubules
- is part of myofibril between two Z lineages

**23** Neurons:

- the most common type of neuron in a bipolar neuron
- multipolar neurons have no more than one dendrite
- neurons have no more than one axon
- mitoses are common among neurons

**24** Schwann cells:

- produce myelin in CNS and PNS
- produce myelin in CNS only
- produce myelin in PNS only
- have nothing to do with myelin

**25** Azurophilic granules:

- are inside granulocytes only
- are inside platelets only
- are mitochondria
- are lysosomes

**26** Neutrophils:

- according to number of segments are classified to Arnneth's classes
- are uncommon in the peripheral blood
- have no phagocytic ability
- produce antibodies

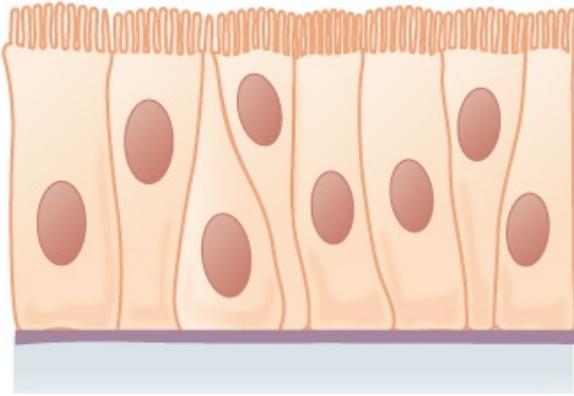
**27** Hepatolienal period of hematopoiesis:

- starts inside liver after 6<sup>th</sup> week
- normoblasts contain hemoglobin HbA
- only red blood cells are produced
- continues to the adulthood

**28** Orthochromatophilic erythroblast

- has diameter 8 - 10  $\mu$ m
- undergoes mitoses
- has no nucleus
- is basophilic

29 Which type of epithelium is on the schema?



- pseudostratified columnar epithelium
- stratified columnar epithelium
- simple columnar epithelium
- urothelium

30 Which tissue is on the picture?



- dense irregular connective tissue
- dense regular connective tissue
- skeletal muscle
- cardiac muscle

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## Links

- List of all tests: Histology MCQs
- Portal:Histology