**Dr. Khabat A.Ali**

**Questions of histology**

**1. Answer with true or false (there is penalty for wrong answers)**

 **Lymphoid tissue is found in the intestinal tract**

 **The thymus increases in size with age**

 **The neutrophils have the highest count in human blood**

**2. Define: Stereocilia, thymus, muscle spindle.**

**3. Mention the type of epithelium for the following:**

|  |  |
| --- | --- |
| **Esophagus** |  |
| **urinary bladder** |  |
| **conjunctiva** |  |
| **skin** |  |
| **endothelium** |  |

**4. What are the functions of bone?**

**5. Compare**

|  |  |
| --- | --- |
| **Skeletal muscles** | **Cardiac muscles** |
|  |  |
|  |  |
|  |  |
|  |  |

**6. How you explain racial color difference?**

**7. Identify & Label the following:**



|  |  |
| --- | --- |
|  |  |
|  |  |
|  |  |

**8. Compare between skeletal & cardiac muscles regarding: Nuclei, t-tubule, mitosis, intercalated disk, contraction**

**9. Give five differences between white & brown fat.**

**10. Mention in order the layers of the epidermis.**

**11. Enumerate the types of hair in human.**

**12. Describe the gross appearance of different types of cartilage**

**13. Enumerate the main functions of bone.**

**14. Discuss the apical cell surface specialization.**

**15. What are the characteristic features found in human face skin?**

**16. The type of muscle in the tongue is……**

**17. The white fiber has a……………..diameter than red fiber**

**18. The central dark line that bisects the muscle fiber (by E.M) is…………**

**19. The epithelial lining of urinary bladder is ….……………**

**20. What is lymphocyte?**

**21. What are the light & electron microscopical features of cardiac muscles?**

**22. What are the features of human hair?**

**23. What are the layers that separate air from blood in the lung?**

**24. What is capillary?**

**25. Mention (in order) layers of skin from uppermost to lower most layer.**

**26. What is membrane?**

**27. Regarding connective tissue:**

 ***Define***

 ***Classify***

 ***Mention the types***

 ***What are the functions?***

 ***What are the components?***

**28. How lymphatic vessels differ from blood vessels?**

**29. What are osteoblasts & osteoclasts?**

**30. Pseudostratified epithelium:**

 ***Define***

 ***What are the functions?***

 ***Mention the location.***

**31. What is lymphocyte?**

**32. What are the light & electron microscopical features of cardiac muscles?**

**33. Define the epithelium, functions & classification. Give examples.**

**34. What are the cells found in the respiratory tract?**

**35. What are the histological differences between artery & vein?**

**36. What are the functions of bone, & how bone is formed?**

**37. What are granulocytes & agranulocytes?**

**38. Compare between different types of adult human cartilage.**

**39. What are the factors that determine human’s skin color?**

**40. : Compare between cardiac & smooth muscles in:**

**a. T- Tubules, striation, site, neural control, response to injury.**

**b. 33: What are the types of human hair? Give examples**

**41. What is integument? What are the functions?**

**42. Classify bones depending on anatomical basis with examples.**

**43. Draw & label a sarcomere showing: Z-disk, I-band, M-line, H-band, A-band**

**44. Enumerate five fixed cells of connective tissue.**

**45. Give an example for each of the following: Flagellated cell, Sesamoid bone, Type IV**

**collagen, largest leukocyte, transitional epithelium**

**46. Draw & label a peudounipolar neuron.**

**47. Define blood & mention the functions.**

**48. What is the difference between active & inactive fibroblast**

**49. Define: osteoclast, megakaryocyte, myelin, Hassall corpuscle, parenchyma**

**50. Define: serosa, Brown fat**

**51. What are the types of epithelium in the following?**

**a. Skin**

**b. esophagus**

**c. Urinary bladder**

**52. Enumerate the functions of?**

**a. Skin**

**b. Myelin**

**53. Draw & label pseudo stratified epithelium.**

**54. Choose the most appropriate:**

**55. Hibernating animals mostly contain a. White fat**

**b. Brown fat**

**56. Skin colour is due to pigment called i. Hemosidrin**

**ii. Lipofuscin iii. Melatonin**

**57-Answer the following**

**1: Define: Serosa, Brown fat**

**2: What are the types of epithelium in the following?**

**a) skin**

**b) Esophagus**

**c) Urinary bladder**

**3: enumerate the functions of?**

**a) Skin**

**b) Myelin**

**4: draw & label pseudo stratified epithelium.**

**5: choose the most appropriate:**

 **Hibernating animals mostly contain**

**1. White fat**

**2. Brown fat**

 **Skin colour is due to pigment called**

**1. Hemosidrin**

**2. Lipofuscin**

**3. Melatonin**

**6- Answer with true or false (there is penalty for wrong answers)**

**1. Lymphoid tissue is found in the intestinal tract**

**2. The thymus increases in size with age**

**3. The neutrophils have the highest count in human blood**

**7: Describe the gross appearance of different types of cartilage**

**8: Enumerate the main functions of bone.**

**9: Discuss the apical cell surface specialization.**

**10: What are the characteristic features found in human face skin?**

**11: Fill in the blanks:**

**1. The type of muscle in the tongue is……**

**2. The white fiber has a……………..diameter than red fiber**

**3. The central dark line that bisects the muscle fiber (by E.M) is…………**

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**19: Regarding connective tissue:**

***a) Define b) Classify***

***c) Mention the types***

***d) What are the functions?***

***e) What are the components?***

**20: How lymphatic vessels differ from blood vessels?**

**21: What are osteoblasts & osteoclasts?**

**22: Pseudostratified epithelium:**

***a) Define***

***b) What are the functions?***

***c) Mention the location.***

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**T- Tubules, striation, site, neural control, response to injury.**

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**34: A-What is integument? What are the functions?**

**B- Classify bones depending on anatomical basis with examples.**

**35: A-Draw & label a sarcomere showing: Z-disk, I-band, M-line, H-band, A-band**

**B-Enumerate five fixed cells of connective tissue.**

**36: A-Give an example for each of the following:**

**Flagellated cell, Sesamoid bone, Type IV collagen, largest leukocyte, transitional epithelium**

**B-Draw & label a peudounipolar neuron.**

**37: Define blood & mention the functions.**

**38: Define: Stereocilia, thymus, muscle spindle.**

**39: A- Mention the type of epithelium for the following: Esophagus, urinary bladder, conjunctiva, skin, endothelium**

**B-What are the functions of bone?**

**40: A-How you explain racial color difference?**

**B-Compare between skeletal & cardiac muscles regarding: Nuclei, t-tubule, mitosis, intercalated disk, contraction**

**41: A- Give five differences between white & brown fat.**

**B- Mention in order the layers of the epidermis.**

**42: A-Enumerate the types of hair in human.**

**B-What is the difference between active & inactive fibroblast**

**43: Define: osteoclast, megakaryocyte, myelin, Hassall corpuscle, parenchyma**