

Examination for Master Degree in: Histology

Course Title: Histology (2nd paper)

Date: 8 /6/2021

Code: HIST 800

Term: Second part (April)

Time Allowed: Three hours

Total Assessment Marks: 270 Marks



Tanta University

Faculty of Medicine

Histology & Cell
Biology Department

Answer all questions and illustrate your answers with labeled diagrams.

- 1-Give an account on the alveoli of the lung and blood air barrier with reference to synthesis of the surfactant, its chemical composition and clinical importance. 40 marks
- 2-Enumerate sensory receptors of the following organs and describe the histological structure of two for each: 40 Marks
 - a- Inner ear (20marks)
 - b- Skin (20marks)
- 3-Give an account on the hypothalamic nuclei. 30 Marks
- 4-Describe epithelial cells that comprise the salivary secretory unit. 30 Marks
- 5-Give an account of proximal and distal convoluted tubules both by light and electron microscopes with reference to ion transporting cells 30 Marks
- 6-State and describe the type of cells responsible for regulation of calcium level in the blood. 20 Marks
- 7-Describe the histological structure and functions of the mature placenta with reference to the blood-placental barrier. 30 Marks
- 8-Describe the histological structure and functions of: 50 Marks
 - a- Sertoli cells with reference to blood- testis barrier. (20 marks)
 - b- Retina pigmented epithelium with reference to blood ocular barriers. (20 marks)
 - c- M cell with reference to its role in intestinal immunity. (10 marks)

Exam committee

Prof Dr. Naglaa Ibrahim Sarhan

Prof Dr. Thoria Eldeeb

Prof. Dr Omayma Kamel Afifi

Dr. Sadika Mohamed Tawfik

Good Luck

Examination for Master Degree in: Histology
Course Title: Histology (1st paper)
Date: 1 /6/2021
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Faculty of Medicine
Histology & Cell Biology
Department

Answer all questions and illustrate your answers with labeled diagrams.

- Q1-Describe in details histological and molecular structure of cytoskeleton. 40 marks
- Q2-Discuss briefly molecular structure of cell membrane with reference to lipid rafts. 20 Marks
- Q3- Give an account on mononuclear phagocytic system with reference to its identification, sites and function. 30 Marks
- Q4- Describe the microscopic structure of osteoclast with reference to the process of bone remodeling. 30 Marks
- Q5- Describe the innervations of skeletal muscle. 30 Marks
- Q6 A-Discuss the process of erythropoiesis with reference to the major changes (20 marks). 40 Marks
B- Discuss in details microscopic structure of different types of blood capillaries with reference to their structure- function relationship (20 marks).
- Q7- List the types of cells that support neuronal survival and activities and discuss the structure of those responsible for formation of the glial limiting membrane. 25 Marks
- Q8- Describe the different types of T lymphocytes and the functions of each. 25 Marks
- Q9- Describe the molecular structure of human chromosomes and their different classifications. 30 Marks

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