**Final Exam.Medical Doctoratein Histology**
**Course Title: Special Histology**
**Code:HIST900**
**Date: 31/10/2019**
**Time Allowed: Three hours**
**Total Assessment Marks: 450 marks**

**Tanta University**
**Faculty of Medicine**
**Department of Histology**

## Answer all the following questions (illustrate your answers with labeled diagrams):

Q1-A-Discuss in details structure and function of enterocytes. 60 marks

Q2- Describe the hepatic structures that share in secretion and excretion of bile. 50 marks

Q3- Give an account on structure of hair follicle with special reference to niche of epidermal stem cells. 50 marks

60 marks

Q4- Compare between histological structure of proximal and distal convoluted tubules with reference to their functions as ion transporting cells.

Q5- Give an account on the histological structure of estrogen- secreting cells in the ovary 60 marks

Q6- Describe pancreatic islets of Langerhans with special reference to DNES cells. 60 marks

Q7-Describe the histological structure of blood ocular barriers. 60 marks

Q8- Describe the cytology of lentiform nucleus and its main connections. 50 marks

**GOOD LUCK**

**Final Exam. Medical Doctorate in Histology**
**Course Title: General Histology**
**Code: HIST900**
**Date: 19/10/2019**
**Time Allowed: Three hours**
**Total Assessment Marks: 450 marks**

**Tanta University**
**Faculty of Medicine**
**Department of Histology**

**Answer all the following Questions**
**(Illustrate your answers with labeled diagrams):**

Q1-Write in details the principles and uses of the following microscopes: 40 marks

a- Phase contrast microscope.
b- Confocal microscope.

2-Give an account on types of epithelial reticular cells. 50 marks

Q3-Give an account on molecular structure and functions of actin filaments with reference to its binding proteins. 60 marks

Q4-Give an account on cell to cell communication including types of signaling molecules and membrane receptors. 60 marks

Q5-Enumerate transient cells of connective tissue and describe their structural characteristics 50marks

Q6-Give an account on the response of neurons to injury. 60 marks

Q7.Enumerate contractile non muscle cells and describe their structural characteristics. 50 marks

Q8-Write in details steps of megakaryopoeisis and describe the structure and function of platelets 40 marks

Q9-Describe structure of osteocyte with reference to its functional states. 40 marks

GOOD LUCK