



Faculty of medicine



اولى دور هسٲولوجى ٢٠١٤
٢٠١٤ / ٩ / ٢



Write the number of each answer and start it in a separate page.
Use the blue pen only in answering questions.
No mobile phone is allowed at all.

Histology (first paper)
Allocated marks: 50
Number of pages: 1

First year
3/9/2014
Time allowed: 140 minutes

Answer the following questions:

Write the number of each question and start the answer of each question in a separate page.

1.	a)	Describe the structure of the basement membrane	(5 marks)	20 marks
1.	b)	Compare between cilia and stereocilia with light and electron microscope, with reference to site and function.	(5 marks)	
1.	c)	Compare between RBCs and leukocytes as regard (number, types, size, contents, shape, function, site of development and life span)	(5 marks)	
1.	d)	Describe and explain electron microscopic features of sarcomere during contraction and relaxation.	(5 marks)	
2.	a)	Describe the LM and EM of osteoclast	(3 marks)	15 marks
2.	b)	Describe the structure of Pacinian corpuscle.	(3 marks)	
2.		Describe the histological structure of a medium sized artery	(3 marks)	
2.	c)	Describe the LM, EM structure and functions of the nucleolus.	(3 marks)	
2.	d)	Draw a coloured labeled diagram of decalcified compact bone.	(3 marks)	
3.	a)	Draw a coloured labeled diagram of hyaline cartilage.	(3 marks)	15 marks
3.	b)	Describe the LM and EM of plasma cell	(3 marks)	
3.	c)	In a table form mention 4 differences between mitosis and meiosis.	(3 marks)	
3.	d)	Describe the LM and EM of neutrophil	(3 marks)	
3.	e)	Describe the histological picture of transitional epithelium	(3 marks)	

The end of exam
Good luck

Dr/ M.S.Elgendy