

### Damietta University Faculty of Science Zoology Department



# Practical Exam of Histology (102 z) May 2020

## 1st year Biology students (credit hours)

(37 marks)

Q1) Complete the following sentences:	(15 marks)
1- A may be defined as an aggregate of more or less similar perform one function or more.	r cells, which
2- The epithelial tissues are characterized by resting on a majority of cases.	, in the
3- In areolar connective tissue, there are cells which secre substance.	et the ground
4- At the periphery of the cartilage, there is a fibrous membrane where we have the cartilage of the cartilage.	hich is named
5-In the dense bone, among the rings of lacunae lie rings of very the which compose the matrix.	nin,
6- The muscles are usually found in the walls of the visco without the interference of the will of the animal.	era and work
7- Each striated muscle fibre is surrounded by a thin structureless me	mbrane called
8- The neighbouring cardiac muscle fibres unite to form a	•



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- 9- In the liver of the pig, each ...... contains a branch of the portal vein, a branch of the hepatic artery, and a bile ductule.
- 10- In the kidney of the toad, the collecting tubules pour the urine into the ....., which extends along the lateral border of the kidney.
- 11- The single chondrocyte or group of chondrocytes lie in a clear ......
- 12- The stratified squamous epithelium consists of epitheliocytes arranged in strata and its function is to ...... the surface on which it lies.
- 13-The ...... are of two categories: lymphocytes and macrophages.
- 14-Spermatozoa are always in clusters and connected to ...... cells, which reach the periphery of the seminiferous tubule.
- 15-..... muscles are long, spindle-shaped cells, which have pointed ends and thickened central parts housing the nuclei.

#### Q2) Answer the following:

**(10 marks)** 

- 1- Identify this section.
- 2- Draw the tissue by your hands with a complete labelling. Scan your hand drawing and past it here.



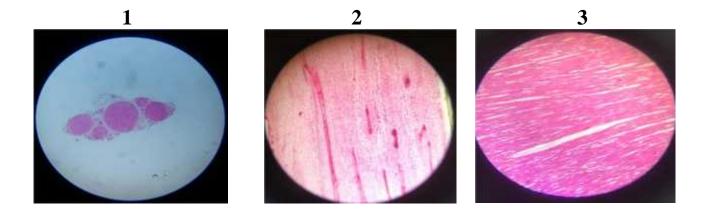


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Q3) Mention the name(s), function(s), and the composition of the gland(s) in the skin of the toad. (6 marks)

Q4) Mention the name and the composition of structural unit of each the following: (6 marks)



**Examiner:** 

Prof. Ahmed M. Ghoneim