

Assiut University
Faculty of Science
Zoology Department

**Summer Semester - General Zoology Exam
(August 2017)**

Time: 2 hour
Level: First
Course Code: 100Z

Answer the following questions (50 marks)

I: Choose the best single correct answer (10 marks)

1. Sarcoplasm is the cytoplasm of
a) Mesenchymal cell b) Blood cell c) Muscle cell
2. is a three layered embryo.
a) Cleavage b) Gastrula c) Blastula d) Morula
3. Gigantism is a disorder results from
a) Increase of GH before adulthood b) Reduction of blood glucose level
c) Low PTH activity d) Excess ACTH activity
4. Insulin is secreted by of the pancreas.
a) Alpha cells b) Beta cells c) Delta cells
5. is formed of head, middle piece and tail
a) Sperm b) Trypanosoma c) Paramecium
6. Goblet cells are best described as
a) Unicellular endocrine gland b) Multicellular exocrine gland
c) Unicellular exocrine gland d) Multicellular endocrine gland
7. Which of the following organelles has its own DNA?
a) Mitochondrion b) Ribosomes c) Rough endoplasmic reticulum
8. Conjugation is a type of
a) Sexual reproduction in *Paramecium* b) Asexual reproduction in
Trypanosoma c) Sexual reproduction in *Amoeba* d) None of them
9. Golgi apparatus do all the following functions except
a) transport b) storage c) packaging d) digestion
10. Osteocytes are present in
a) Bone b) Hyaline cartilage c) Mesenchyme d) Adipose tissue
11. Which type of tissue is designed to stretch?
a) Stratified b) Squamous c) Transitional d) Epithelial
12. Calcitonin is a hormone secreted by

- a) Thyroid gland b) Adrenal cortex c) Adrenal medulla d) Parathyroid gland
13. Which type of tissues transmits electrical signals?.....
 a) Muscle tissue b) Epithelial c) Connective d) Nervous
14. A process by which cells release their contents to the outside of the cell...
 a) Phagocytosis b) Pinocytosis c) Endocytosis d) Exocytosis
15. A type of fibers that made of elastin.....
 a) Yellow b) Collagen c) Reticular d) White
16. Which of the following digest the dead and old organelles in the cell?

 a) Lysosome b) Ribosomes c) Golgi complex d) Mitochondria
17. One of the following is mixed gland
 a) Pituitary b) Thyroid c) Adrenal d) Pancreas
18. The Binomial nomenclature has been defined by the Scientist
 a) John Ray b) Carl Linnaeus c) Aristotle
19. are Unicellular organisms.
 a) Poriferans b) Cnidarians c) Protozoans d) Nematodes
20. Which one correct of the following terms from simple to most complex
 a) Organelles, cells, tissues, organs, organism
 b) Cells, organelles, organs, tissues, organism
 c) Tissues, cells, organelles, organs, organism
 d) Organs, cells, organelles, tissues, organism

II: (A) Define the following terms (6 marks)

1. Physiology.....

2. Homeostasis.....

3. Taxonomy.....

4. Endocrine glands.....

5. Embryology.....

6- Active transport.....

II: (B) Complete the following tables (8 marks)

	Platyhelminthes	Annelida
Digestive system		
Circulatory system		
Body shape		
Excretory system		

III: Answer the following (16 marks)

1. Tissues originate from three germ layers during embryonic development give different examples?

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2- Write notes on locations and functions of stratified squamous epithelium

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[illegible][illegible]

IV: Answer the following

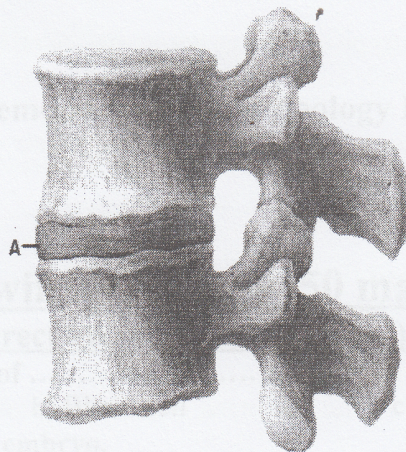
(10 marks)



Identify the arrow part A

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Description.....

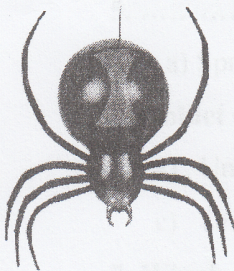
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Location.....



Identify the arrow part A

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Description.....

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Location.....

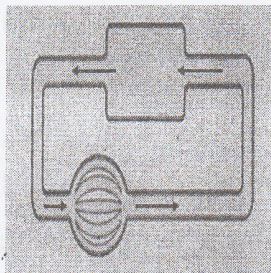


Identify sample Phylum:

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Type of symmetry

.....



Type of circulatory system is

.....
present in Phylum.....

*With our best wishes
Dr Emad A Ahmed*