



قسم علم الحيوان

	Tanta University- Faculty Of Science			
	Department of Zoology			
	Examination Paper for freshmen (First level) students of Biology			
Course Title:	General Zoology (2) حيوان عام (2) الأسئلة في أربع صفحات		Course Code: ZO 1202	
Date:	June, 2016	Term: Second	Marks: 150	Time Allowed: 2 Hours

Answer the following questions:

First Question (50 Marks)

1- Give only scientific expression of the following meaning:....(7 Marks for each)

- a-It cannot be identified because it is a phenomenon however, we can differentiate between living and non living objects.
- b-It is the variety of the forms on earth from all sources of habitats.
- c- These are recognized as major equipment in conserving species and ecosystems.
- d- An assemblage of identical individuals similar each other in essential characters and can interbreed freely to give fertile youngs.
- e- Localities at lower latitude have more species than localities at higher latitude.
- f- It is a region with high level of endemic species.

2- Mention only five of the threats of biodiversity then explain only one in details.(3 Marks)

3- Mention the specific characters of the first phylum at which the true coelom. present. please mention its medical importance..... (12 Marks)

4- Enumerate only the disadvantages of arthropods from economic point of view... (3 Marks)

5- What is the affinity of Echinoderms to chordata (12 Mark)

6- Complete:

a-Mollusca are divided into 7 classes as follows: (7 Marks)

1- 2- 3- 4- 5- 6- 7-

b- Echinodermata is more advanced than cnidarians(6 Marks)

1- 2- 3-

Second question (30 marks)

A- Comment with fully labeled drawings on:..... (10 marks, 5 Marks each)

- 1- Polyp and medusa forms.
- 2- Structure of a choanocyte.

B- Multiple choices (MCQ): Choose the correct answer. (10 Marks, 2 marks for each one).

1- Reversal of cell layers, a phenomenon found in:

- () a. Cnidaria b. Porifera c. Annelida d. Nematoda

2- Which of the following is not characteristic for the Phylum Cnidaria?

- () a. Cnidocysts b. nerve net c. Coelentron d. True coelom

3- By which method do sponges reproduce asexually?

- () a. ova b. sperm c. gemmules d. larvae

4- Which of the following is the correct type of symmetry in Phylum Cnidaria?

- () a. radial b. bilateral c. asymmetrical d. spherical

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5- Which of the following is Not a character of Phylum Porifera?
 () a. ostia b. spongocoel c. oscula d. nephridia

C- Match the following: (10 marks, 2 marks for each one)
 Match Invertebrate Class in column A to representatives in column B and write the correct number in column A

Column A		Column B
a) Hyalospongia	(No)	1) Moon Jellyfish
b) Cubozoa	(No)	2) coralline sponges
c) Demospongia	(No)	3) Venus flower basket
d) Scyphozoa	(No)	4) sea wasp
e) Sclerospongia	(No)	5) bath sponge
		6) Sea anemones
		7) White tube sponge

Third Question (40 Marks)

I- Choose only one correct answer:(8 Marks, 1/2 mark each)

1-Protozoan animals reproduce sexually by:

- a-Binary fission
- b-Gametogamy, autogamy, and conjugation
- c-Multiple fission
- d-Budding

2-In protozoa holozoic nutrition organelle is:

- a-Food vacuoles
- b-Contractile vacuoles
- c-Chloroplast
- d-Cell membrane

3- *Giardia lamblia* is

- a-Haemoflagellate with 1-2 flagella
- b- Parasitic Intestinal flagellate with one-many flagellae
- c-Symbiotic Intestinal flagellate
- d- Free-living phytomastigophora

4-Which of the following is not ciliate characters:

- a-Asexual transverse binary fission
- b- Absence of contractile vacuole
- c-Two types of nucleus
- d- Cytostome

5- Deuterstomia means:

- a-Mouth origin is blastopore
- b-Anus origin is archenteron
- c-Mouth origin is coelom
- d-Anus origin is blastopore

6-Class turbellaria main characteristics:

- a-Coelomate with ciliated epidermis
- b-Acoelomate with syncytial tegument
- c- Acoelomate with ciliated epidermis
- d-Coelomate tegument is covered with microtriches

7-When cercariae encyst on herbage it belongs to family:

- a-Schisosomatidae
- b-Heterophylidae
- c-Echinostomatidae
- d-Fasciolidae

8- Monozoic class cestoda means :

- a-Unsegmented body
- b-Differentiated Body into three main regions

9- Ciliated larvae onchomiracidia is specific to class:

a-Digenea

b-Monogenea

c-Cestoidea

10- Reserved food in class phytomastigina is:

a-Starch

b-Glycogen

c-Lipids

d-Chromatins

e- both a & b

11- *Trypanosoma* sp. is:

a- *Apicomplexa*

b-Flagellates

c-Sarcodines

d-Ciliates

12- Subphylum sarcodins sexuality by:

a-Encystment

b- Amoeboid and flagellate gametes

c-Budding

d-Transverse binary fission

13-When cercariae penetrate skin of final host, it belongs to family:

a-Echinostomatidae

b-Heterophylidae

c-Schisosomatidae

d-Fasciolidae

14- Redia Larvae formation is specific to class:

a-Trematoda

b-Cestoidea

15- Platyzoa is:

a-Bilateria Deuterostomia

b-Bilateria protostomia coelomate

c-Bilateriaprotostomia acoelomate

d-Bilateria protostomia pseudocoelomate

16-Nematodes belongs to group:

a-platyzoa

b-Lophotrochozoa

c-Ecdysozoa

II- Answer the following question:

a- "Opalinata is not ciliates" Discuss(3.5 Marks)

b- Differentiate between the 2 subclasses; Cestodaria and Eucestoda .(3.5 Marks)

III- Write on the following:(20 Marks, 5 marks each)

a- General characters of phylum Apicomplexa ?

b- Definitive characters of phylum Ciliophora ?

c- Function of pseudocoelom?

d- Manner of nematode infection?

IV- Define the following:(5 Marks, 1 mark each)

a-Eutely

b -Lophotrochozoa

c- Rhabdites

d - Microtriches (micrilli)

e - alteration of generation

Fourth Question (30 Marks)

1. With fully labeled diagram show: (20 marks)

a. Why reptiles, aves and mammals are amniotes?

b. The specific characters of chordates.

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2. Choose the correct answer:(10 marks)

1. **Ascidia is**

- a. a vertebrate b. a hemichordate c. a cephalochordate
d. a urochordate.

2. **All of these animals are amniotes except**

- a. dog fish b. cat c. lizard d. armadillo

3. **All of these animals are tetrapods except**

- a. Tilpia b. horse c. rabbit d. duck

4. **The number of paired fins in petromyzon is**

- a. three b. two c. one d. zero

5. **All of those animals are protochordates t except**

- a. Ascidia b. amphioxus c. petromyzon d. lancets

6. **All of the following are characteristics of mammalian monotremes except one. Select the exception.**

- a. have hair b. have mammary glands c. have maternal pouch d. lay eggs

7. **Kangaroo has**

- a. an upper air passage and lower food passage.
b. one passage for both air and food
c. just food passage and no air passage
d. just air passage and no food passage

8. **The animals of order Urodela in class amphibia have**

- a. tail
b. legs of the same size
c. 2 pairs of legs
d. All the above

9. **Which of the following is a member of group Agnathostomata**

- a. petromyzon b. lancet c. lizard d. elephant

10. **All of the following are characters of mammals except one. Select the exception.**

- a. have teeth b. has 3 chambers heart c. have diaphragm d. have mammary glands

Best Wishes & Good Luck

Examiners	1- Prof. Dr. M. Mona	2- Prof. Dr. Fayez A. Shoukr
	3-Prof. Dr. M. ElMehlawy	4- Prof. Dr. Abeer Alam Eldeen

تمت الأسئلة



1969	COURSE TITLE:	Principles of Zoology		COURSE CODE: ZO1204
DATE:	JUNE, 2016	TERM: SECOND	TOTAL ASSESSMENT MARKS:100	TIME ALLOWED: 2 HOURS

(الإمتحان فى ثلاثة صفحات)

First question

(Total mark 30)

Answer the following questions:

1. Write short note about latitudinal gradients .
2. Mention the 7 threats of biodiversity.
3. Define the biological diversity.
4. In diagram illustrate the kinds of ecosystems.
5. With full drawings only mention the types of sponge water flow system.

Second question

(Total mark 12)

Answer the following questions:

- 1) Mention the general characters of Mollusca. (7 marks)
- 2) Chose the correct answer and comment : (5 marks)
 1. Segmented worms have
 - a. A closed circulatory system. c. Asymmetry
 - b. An open circulatory system. d. Radial symmetry
2. Which of these is NOT a characteristic of arthropods?
 - a. A endoskeleton c. Segmented body parts
 - b. Pairs of appendages d. Bilateral symmetry
3. Which of these animals are polychaetes?
 - a. Nematodes c. Sand worms
 - b. Earth worms d. Leeches
4. Which of these terms is NOT related to Porifera
 - a. Choenocytes c. Calcareous spicules
 - b. Trochophore larva d. Ostium
5. Which statement is NOT true?
 - a. Arthropods have open circulatory system. c. Arthropods have dorsal nerve cord.

- c. Protruded pharynx found only in Polychaeta. d. Demospongia have sponging fibers.

Third question

(Total mark 25)

A. Identify and give examples of Coelomata, pseudocoelomata and acoelomata (10 marks)

B. Define these Terms:

Species. – Metameric. – Monoecious. – Arthropod. – Mantle (15 marks)

Fourth question

(Total mark 33)

1- Write the scientific term for each of the following statements :

(10 marks)

- 1) Chordate animals that their body contains no vertebral column.
- 2) Marine animal with a circular, funnel-shaped sucker mouth provided with several rows of sharp teeth.
- 3) A group of mammals that don't give birth but lay eggs and incubate them.
- 4) Group of vertebrate animals which characterized by the presence of air- bladder.
- 5) Animals characterized by having two pairs of incisors in the upper jaw and one pair in lower jaw, their tail is short and ears are long.

2- Choose the correct answer:

(5 marks)

1) All chordates have these characteristics except

a) endoskeleton b) ventral heart

c) vertebral column d) post-anal tail

2) From the animals that their adults stages breathe by skin and lungs is the

.....

a) lizard b) salamander

c) snake d) crocodile

3) Limbs may be absent in

a) reptiles b) amphibians

c) both (a&b) d) mammals

4) The tunic of sea squirt (Ascidia) is made of

- a) Placoid scales
- b) keratin
- c) cellulose
- d) horny scales

5) Fertilization is external in

- a) reptiles
- b) birds
- c) bony fishes
- d) mammals

3- Choose the anomalous word (الكلمة الشاذة) , and then mention (in one word) what links the rest. (10 marks)

- a) Lizard / Turtle / Caecilian / Snake
- b) Mammals / Birds / Reptiles / Amphibians
- c) Petromyzon / Bolti / Ascidia / Shark
- d) Chicken / Bat / Hawk / Pigeon
- e) Donkey / Sheep / Goat / Deer

4- Write short notes in : (8 marks)

- a) Main characters of chordates.

Best wishes.....

Examiners:

1. Prof. Dalia F. Afify.
2. Dr. Ahmad El-Bossery.