



PRACTICAL EXAMINATION FOR THIRD YEAR STUDENTS OF SPECIAL ZOOLOGY COURSE TITLE: FISH BIOLOGY COURSE CODE: ZO 3109

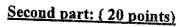
28 DECAMBER, 2016 TOTAL ASSEMENT MARKS: 100

TIME ALLOWED: 2 HOURS

FIRST PART: (20 POINTS)

Complete the following sentences:

- 1. The obligatory food is
- 2. The value of maximum growth rate at temperature is And the growth rate is faster in Then Because
- 3. Surface feeders are
- 4. Herbivorous feeders are
- 5. Monophagic feeders are



ii. Mention the function of the following:

- 1. Diencephalon.
- 2. Cerebellum.
- 3. Mesencephallen.
- 4. The skin and its derivatives.

Third part: (20 points)

Explain the following statements: iii.

- 1. Classification of fishes according to the manner of capture and ingestion of food.
- 2. Melanophores.
- 3. Factors affecting the growth rate.
- 4. Condition factor.

- 1. Discuss the steps of R.B.Cs formation.
- 2. Compare between the R.B.Cs and W.B.Cs in Teloste and Elasmobranchii fishes.

Examiners	PROF. DR. IBRAHEM	PROF DR COLUMN
	ELSHOURBAGY	PROF. DR. SOMAIA Z. RASHED
<u> </u>	PROF. Dr. Afaf Alatrash	



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Tanta University Faculty of Science Department of Zoology



EXAMINATION FOR JUNIORS(3rd YEAR) STUDENTS OF SPECIAL ZOOLOGY

Course title: ANIMALTECHNIQUES Student No.: 69(Sixty Nine) Course code: ZO		Course code: ZO3107	
Date: 16, January, 2017	FIRST TERM	Total assessment marks: 150	Time allowed: 2 HOURS
Examiners: Prof.Mohamed Labib, Prof.	Ghada Tabl, Prof. He	widaAbu-Shafey, Dr. Ezar Hafez	and Dr. SohaGomaa
Question 1: Complete the missing p	earts with appropria	ate word(s)? (40 marks)	الامتحان في ورقتان
1) The process of agglutination invo	lves two steps 1	, ,	
2) Chromatography is classified base	ed on a,	b,,	
3)	is the proces	ss by which red blood cells agg	lutinate.
4) Antibody titer is defined as		of the greatest dilution in w	hich agglutination is observed
5)andprevent harmful interactions betw	een your blood and	donor blood.	
6) When individual acquires immu	unity through the tr	ransfer of antibodies formed	by another host, it is called
		to call along and directed to sin	agla anitona of single antigen
7)are 8) In hydridoma technology, addition	derived from a sing	leads to fusion of some P	lymphocytes with tumor cel
to produce a hybrid cell (hybridor		leads to fusion of some D	-tymphocytes with famor co.
9) ELISA technique is used for a,	b		d,
10) is an	equipment that enab	les a sophisticated separation of	of mixture between two phase
11) The purposes of chromatography	are 1,		
12) is a basic biotechnol	logy technique that s	eparates macromolecules accor	rding to their charge and size.
13) Protein senaration by SDS-PAGE	E can be used to a		
14) SDS is an anionic detergent which	h and	thus overwhelming po	sitive charges in the protein.
15)is	s the transfer of prote	eins from the SDS-PAGE gel to	o a solid supporting membran
16) There are two types of blotting at	pparatus used to trans	sfer proteins to solid supports a	a,b,b,
17) The applications of flow cytome	etry includes a,	c,b,c,c,	, whi
flowcytometry steps are a,	b,,	d,	e,
18) There are three different supports	s commonly in use for	or western blotting a,	.b,,,,,,,,,,,
19) In chromatography, separations a	ire carried out based	on differences in	and
20) The advantages of cell culture o	ver tissue and organ	cultures are	, out t
basic equipments of cell culture a	ire a,	, D, C C	
Question 2:Decide whether the foll	owing statements a	the true of laise and correct in	as formed by another bost
1) Passive immunization-individual	acquires immunity	mrough the transfer of antibout	es formed by another most.
2) Cell culture is a biochemical tec	chnique used mainly	in immunology to detect the	presence of an antibody of
antigen in a sample.3) Cell viability is laser based technical	ology omployed in a	ell counting cell sorting bioms	arker detection
4) Flow cytometer is an instrument	nt that measures the	intensity of light absorbed	after it passes through same
solution.	ne mai measures un	Intensity of fight absorbed	arter it passes arrough oming
A A	mid and through whi	ch the mixture is carried by mo	obile phase.
5) Stationary phase can be solid/lig6) Stacking gel is the gel in which r	proteins are resolved	on the basis of their molecular	weights
7) In sandwich ELISA, wells are co	nated with antigen, w	hile they are coated with antibo	ody in direct ELISA.
8) Spectrophotometer is a method	I to measure how r	nuch a chemical substance a	bsorbs light by measuring t
intensity of light.	en of different antib	ndr: alassas	
9) Monoclonal antibodies are mixtu10) The most common purity check	for DNA and RNA;	s the A260/A230 ratio	
Ouestion 3(30 marks): A-Choose			
1) Usually nucleic acids are detected	ed at absorbance (a	260 b. 280 c. 230	d. 320).
2) In gel electrophoresis, fragments a	are separated on basi		
3) Agarose gels are commonly used	to sort (a. DNA	b. Protein c. Ri	
2) I Parone Bern are commonly asea			

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Question 5: (30 marks)

A) Indicate whether the following statements are true or false: (15 marks):

- 1- The aim of fixation is to preserve the cell contents in as life manner.
- 2- Haematoxylin is a basic dye which stains basophilic components blue purple.
- 3- The magnifying power is the product of multiplying the ocular and the objective lenses power.
- 4- Formalin should be used in an extremely good ventilated room.
- 5- Glutaraldehyde is usually used as a buffered fixative for electron microscopy techniques.
- 6- Dehydration is the complete removal of water from the tissue.
- 7- Clearing is the replacement of the dehydrating fluid with embedding medium.
- 8- Tear or scratch across the section, or splitting of the ribbon; may be due to a jagged knife edge or dirt on the knife.
- 9- Cytoplasmic fixatives should not contain glacial acetic acid because mitochondria destroyed by it.
- 10- Dioxane is an excellent clearing agent.
 - B) Explain how you can prepare an organ for microscopic examination?(15marks)

Best wishes from The Examiners



TANTA UNIVERSITY FACULTY OF SCIENCE DEPARTMENT OF ZOOLOGY PRACTICAL EXAMINATION FOR THIRD YEAR STUDENTS OF SPECIAL ZOOLOGY COURSE TITLE: FISH BIOLOGY COURSE CODE: ZO 3109 DATE: 28 DECAMBER, 2016 TOTAL ASSEMENT MARKS: 100 TIME ALLOWED: 2 HOURS

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Second part: (20 points)

ii. Mention the function of the following:

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TANTA UNIVERSITY FACULTY OF SCIENCE DEPARTMENT OF ZOOLOGY

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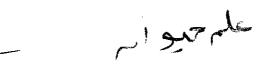
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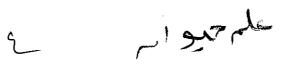
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DATE:

TANTA UNIVERSITY FACULTY OF SCIENCE DEPARTMENT OF ZOOLOGY

EXAMINATION FOR 3RD YEAR SUDENTS

COURSE TITLE: EMBRYOLOGY & EXPERIMENTAL EMBRYOLOGY OF VERTEBRATES

COURSE CODE: ZO 3101

JANUARY, 2017 | TERM: FIRST

TOTAL ASSESSMENT MARKS: 180

TIME ALLOWED: 2 HOURS

Answer the following Questions:

First Question:

(Total 45 marks)

- 1) With drawing compare the blastula in Amphioxus, Frog, and Chick,
- 2) How does the cortical granules entails changes at the egg surface that prevent polyspermy?
- 3) How is the information for embryonic development within the fertilized egg interpreted to give rise an embryo (Gene expression).

Second Question:

(Total 45 marks)

- 1) How does the fertilization potential serves as a fast block to polyspermy?
- 2) With drawing, show the structure of hen's egg and its passage through the viduct.
- 3) With drawing show the structure of the brain of the frog's embryo.
- 4) With drawings describe the **Human blastocyst** at 9-11 and 12 days.

Third Question:

(Total 45 marks)

- 1) With perfect diagrams ONLY, show the development of the heart of the frog embryo.
- 2) Compare between different stages of Chick, 24, 48, and 72 hours.

Fourth Question:

(Total 45 marks)

- 1) All organs of the Frog are originated from three germinal layers, Mension the origin of: (muscles vertebrae- otic vesicle dermis –ovaries- spermatid-heart ventricle- heart- brain ventricle- blood vessel Liver gut intestine-mesentries- eye lens).
- 2) Compare between the movement of cells during gastrulation of the Frog and Amphioxus

With Best Wiskes

	PROF. FOUAD AFIFI ABOU-ZAID	
EXAMINERS	PROF. FOUAD AFIFI ABOU-ZAID	
	PROF. NABIL KAMAL EL-FIKY	i
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Date:	Tanta University- Faculty Of Science Department of Zoology Examination Paper for juniors (Third Level) students of Special Zoology				
	Jan., 2017	Term: First	Marks: 150	Time Allowed: 2 Hours	

2 Hours
First Question (40 Marks)
A- Multiple choices (MCQ) : Choose the correct answer, (10 Marks, 2)
marks for each one).
1- Life cycle of hydroids Ectopleura crocea (=Tubularia crocea) recorded at the
tastern narbor of Alexandria includes larvae called
() (A) Planula larva (B) Actinula larva (C) Ephyra larva (D) Both A & B
2- Upside- down Jellyfish with blue oral arms characterizes: (A) Cassiopea andromeda (B) Cassiopea yamachana
(A) Cassiopea andromeda (B) Cassiopea xamachana (C) Aurelia aurita (D) Pelagia noctiluca
3-In Red Sea of Egypt, branching fire coral <i>Millepora dichotoma</i> belongs to:
() (A) Soft corals (B) Horny corals (C) Hydrocorals (D) Black corals
4- The common Scyphozoan Jellyfish Orders recorded in Egyptian fauna
pelong to:
(A) Semaeostomeae (B) Rhizostomeae
(C) Stauromedusae (B) Rhizostomeae (C) Stauromedusae (D) Both A & B
5-Number of tentacles & mesenteries in Anthozoan Octocorals polyps is typically:
() (A) 6 (B) 6 & its multiples (C) 8 (D) 8 & its multiples
B- Fill in the blank: (10 marks, 2 marks for each one).
1-Cnidarians show diversity of habitats and include two main forms
and
2-In recent Taxonomy of Hydrozoa, Anthoathecata considers a combination
of and 3- Types of food habits of mangrove jellyfish <i>Cassiopea</i> common in Red Sea
of Edypt are:
of Egypt are:
5- Anemone city showing symbiosis relationship between clownfish and their
nost sea anemone reported in Egypt in
c-true of False: which of the following statements is True or False?
Correct False answers. (10 marks, 2 marks for each one).
() 1-Leptothecata considers the recent combination of
Calyptoblastea and Leptomedusae. () 2-Function of dactylozooids in colony of fire coral Millenora
 2-Function of dactylozooids in colony of fire coral Millepora dichotoma is sexual reproduction.
() 3- Newly-enlarged Suez Canal considers a major threat to
Mediterranean environment through invasive jellyfish species.
() 4- Medusa of Rhizostomeae has four unbranched oral arms.
() 5- Scientific name of organ pipe coral is Entacmaea quadricolor.
<u>D- Essay Questions:</u> (10 Marks, 5 marks for each one).
1- Comment with labeled sketch on life cycle of snake-locks anemone
Anemonia viridis (=Anemonia sulcata) inhabiting Mediterranean Sea of Egypt. 2 -Discuss your conclusion for chidarian life cycles. @ قصمان الجودة
وحدة ضمان الجودة في Egypt. 2-Discuss your conclusion for cnidarian life cycles. كايدة العلوم - جامعة طنطا
U QUALITY ASSURANCE UNIT
FACULTY OF SCIENCE - TU

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[15 marks]

[15 marks]

[10 marks]

TANTA UNIVERSITY - FACULTY OF SCIENCE DEPARTMENT OF ZOOLOGY FINAL EXAM FOR JUNIORS (THIRD LEVEL) STUDENTS OF ZOOLOGY **COURSE TITLE:** FIELD TRIPS **COURSE CODE: ZO 3111** DATE: 26. JAN. 2017 SEMESTER: FIRST TOTAL ASSESSMENT MARKS: 100 TIME ALLOWED: 2 HOURS Answer the following questions: (Questions in 2 pages) Q1. A. Write short notes on the following 1. Types of an ecosystem. 2. Types of deserts. 3. Ecological pyramids 4. Abiotic sampling of streams. 5. Marine dangerous animals. Q1. B. There are many general and environmental hazards that exist in nearly every location worldwide. Explain briefly how you can avoid the following hazards. 1. Dehydration 2. Sunburn and heat exhaustion 3. impure water 4. Hypothermia 5. High Altitude illness Q2. A. Define each of the following: 1. National parks protectorates. 2. Nature conservation reserves protectorates. 3. Biosphere reserves protectorates. 4. Sea sickness 5. Water budget.

Q2. B. Only with fully labelled diagram explain different zones of Intertidal Habitats. [10 marks] Q3. Complete the following sentences: [10 marks] 1. are natural protectorates represent wetlands and natural restricted areas for birds. 2. Natural Protectorates in Red Sea Governorate consists of and Red Sea 3. represent two important geological protected areas in Egypt. 4. is the second of four zones found on the rocky shore. This area is covered with water of the time. 5. The Convention on the Biological Diversity (CBD), 1992. Formulated the concept of Ecosystem" in the following definition:

End of Page 1 ➤>>>> See page 2

Ill- Mention the differences between two only of the following: (10

marks) i- Xiphosurida and Pycnogonida ii- Hoplocarida and Phyllocarida iii- Tanaidacea and Isopoda

VI- Answer the following: (10 marks)

- Write in details the body structure and classification of Amphipoda.

Fourth Question (35 Marks)

I. Complete the following statements with suitable words (18 marks, 3 each):

- A) Pelagic environment could be classified into....region extended to depth...., and ...region which extend to depth....
- B) Holoplankton organisms means...., while meroplankton means....and classified into...,....according to their sizes.
- C) Spray zone means....in which organisms live are facing problems as.....
- D) In sponges, Polysaccarides secreted by special cells in the body wall called....., while Sclerocytes is a type of cells responsible for....
- E) Calyx nicaensis is a sponge type inhabiting....sea with...shape andskeleton.
- F) Cacospongia scalaris is a Red Sea sponge which has dark.... Color due to presence of.....

II. Put true(√) or false(X) (10 marks, 2 each):

- A) Dysida avara and Callyspongia implexa is Mediterranean species which have medical importance ().
- B) Ras Muhammed National Park is the most important region in Red Sea due to biodiversity of sponge species ().
- C) The organisms inhabiting low tide zone are well adapted to desiccation ().
- D) The first attempts in sponges survey were done by Lendenfield ().
- E) Spongia zimocca has only sponging fibers so it has yellow color().

Ill.Make simple definition to the following: (7 marks)

A) Lophocytes B)Nekton C)Eulittorial zone D)Avaral

Best Wishes & Good Luck

ĺ	Examiners	1- Prof. Dr. Fayez A. Shoukr	2- Prof. Dr.Fadia Heba	
		3- Prof. Dr. El-Sayed Taha Rizk	4- Ass.Prof. Wesam Salama	

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Tanta UNIVERSITY **FACULTY OF SCIENCE** DEPARTMENT OF ZOOLOGY

Theoretical examination for 3rd year students of Zoology

COURSE TITLE:

SP. HISTOLOGY

JANUARY. 2016

TERM: FIRST

TOTAL ASSEMENT MARKS:

150

TIME ALLOWED: 2 HOURS

Q1- Write down the correct answer and number in your answering sheet:

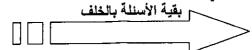
- 1. Germ cells which have finished meiosis but have not yet differentiated into spermatozoa are:
 - a. Leydig cells.b. spermatids. c. Sertoli cells.

d. tunica albuginea.

- 2. All of the following cells divide, either mitotically or meiotically, EXCEPT:
- a. spermatogoniab. primary spermatocytes
- c. spermatids and spermatozoa d. all of the above cells divide
- 3. All are skin derivatives (accessory organs) except
 - a. sebaceous glands
- b. nails
- c. sweat glands
- d. Melanocytes

- 4. The epithelium of the vas deferens is:
 - a. simple squamous epithelium.
- b. ciliated columnar epithelium with goblet cells.
- c. pseudostratified epithelium with stereocilia.
- d. transitional epithelium.
- 5. What type of epithelium lines the uterus?
 - a. simple squamousb. simple cuboidalc. simple columnard. pseudostratified
- 6. The mucosal layer of the uterus is called the:
 - a. endometrium.b. myometrium.c. chorionic villi.d. placenta.
- 7. Larger blood vessels are found in the ovarian:
 - a. theca.b. medulla.c. cortex.d. tunicaalbuginea.
- 8. Sensory receptors in the dermis that respond to pressure is called the:
 - a. Pacinian's corpuscles.
- B. Meissner's corpuscles c. Mary's corpuscles
- d. sebaceous corpuscles

- 9. Larger blood vessels are found in the ovarian:
 - a. theca.b. medulla.c. cortex.d. tunicaalbuginea.
- 10. The "germinal epithelium" of the ovary is:
 - a. simple cuboidal mesothelium.b. organized into branching tubules.
 - c. the source for germ cells.d. all of the above
- 11: All are factors effects on skin color except:
 - a. Heredity
- b. Sex
- c. Ages
- d. Prolonged exposure to sunlight
- 12. Testicular cells which secrete testosterone are:
 - a. Leydig cells.b. Sertoli cells.c. spermatogonia.d. spermatocytes.
- 13: All are pigments for skin color except:
 - a. Carotene.
- b. Hemoglobin
- c. Melanin
- d. Safranen.
- 14. Which organ functions to produce sperm cells by mitosis and meiosis?
 - a. testisb. epididymis
- c. vas deferensd. seminal vesicle
- 15. Which organ surrounds the urethra?
 - a. testis
- b. epididymis
- c. vas deferens
- d. prostate





TANTA UNIVERSITY **FACULTY OF SCIENCE**

ZOOLOGY DEPARTMENT

First term Exam- 3rd Level/ MICROBIOLOGY (الإختبار في صفحتين) PARASITOLOGY

COURSE CODE: 3153 TIME ALLOWED: 2 hrs.

COURSE TITLE: 14 JANUARY 2017 DATE:

TOTAL ASSESSMENT: 100 MARKS (60 MARKS) First Part

I-Define the following:(20 Marks; 4 Marks each)

a- Temporary parasite

b- Monoxenous and Heteroxenous life cycle c- Reservoir host

d- Incubation period

e- Prevalence of infection

II- Answer the following questions:(40 Marks)

1- Describe the pathogenecity and mode of infection of fascioliasis?

(7 Marks)

2- Illustrate the life cycle and transmission of Heterophyes hetrophyes?

(7 Marks)

3-Enumerate why Echinococcus granulosis infection have severe pathogenecity for human? (7 Marks)

4- Differentiate between the following:

(7 Marks)

a-Diagnosis of; Hymenolepis sp. and Diphyllidium caninum

b- Mode of infection in; Ascaris sp. and Anclystoma sp. 5- "Pinworm infection is household disease" Give reasons.

(5 Marks)

6-Mention the mode of action of the following anti-helminthic drugs on parasites: (7 Marks)

a- Niclosamide

b- Prazequantel

c- Mebendazol

(40 MARKS) Second Part

I- Answer the following questions:

(30 Marks; 7.5 Marks each)

- A) Mention the important factors for parasitic pathogenicity to the host? Discuss the pathogenic potential that caused from Leishmania donovani?
- B) What does it mean "opportunistic protozoa". Give an example, regarding to intestinal coccidian parasites, and mention the disease that caused, infective stage and the mode of infection.
- C) Mention the modes of infection and diagnostic stages of the following: Trypanosoma, Giardia, Toxoplasma gondiiand Balantidium coli.
- D) Compare between the cyst stage in Entamoeba coli, Entamoeba histolytica and Iodamoeba buetschlii.

II- Choose the correct answer:

(10 Marks; 1 Mark each)

- 1) How are both Trypanosoma and Leishmania spread?
 - A) By blood-sucking vectors
 - B) Mother-to-fetus
 - C) Sexually transmitted
 - D) Person-to-person
- 2) In malaria, where do the asexual sporozoites undergo schizogony to form merozoites?
 - A) In liver cells
 - B) In red blood cells
 - C) In lymph nodes
 - D) In the stomach of the female Anopheles mosquito

SEE NEXT PAGE→

3) All this parasites are pathogenic except

- A) Entamoeba histolytica
- B) Isospora
- C) Giardia lambilia
- D) Entamoeba gingivalis

4) Stage with a protective membrane or thickened wall called:

- A) Cyst
- B) Trophozoites
- C) Egg
- D) Non of the above

5) Actively feed and multiply stage of Toxoplasma called:

- A) Tachyzoit
- B) Trophozoites
- C) Egg
- D) Non of the above

6) Each of the following statements concerning Malaria is correct except

- A)The Female Anopheles Mosquito is the Vector
- B) Early infection, sporozoites enter hepatocytes
- C) Release of merozoites from red blood cells cause Fever and Chills
- D) The principal site of gametocyte formation is the human gastrointestinal tract.

7) Which mastigophoran species causes a sexually transmitted disease?

- A) Trypanosoma cruzi
- B) Leishmania donovani
- C) Giardia lamblia
- D) Trichomonas vaginalis

8) What does the parasite Giardia use to attach to the intestinal wall of its host?

- A) Super glue
- B) Capsule
- C) Flagella
- D) Adhesive disc

9) The reproduction in members of phylum Ciliophora includes:

- A) Autogamy and sporogony
- B) Fisssion and conjugation
- C) Binary fission and autogamy
- D) Binary fission only

10) The trophozoit which contain red blood cell in its cytoplasm is

- A) Entamoeba coli
- B) Entamoeba histolytica
- C) Entamoeba gingivalis
- D) Iodamoeba

BEST WISHES

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