



المستوى الاول علوم البيولوجي



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R.		7 F	TANT	A UNIVERSITY TY OF SCIENCE	
		VANNATION	DEPARTM	ENT OF ZOOLOGY	INTE OF BIOLOGY
1909		XAMINATION	General Zo	(FIRST YEAR) STUDE	COURSE CODE: 70120
	JOOKSE TITLE.	TERM	TOTAL ASSE	SSMENT MARKS:150	TIME ALLOWED: 2
DATE:	JUNE 2017	SECOND	MARKS		HOURS
	Plea	se Note That	The Exam Is In	Four Pages	
Answer the	e Following Qu	estions:	Part I: (40	Marks)	
1- Wri a) b) c) d)	te the name of The term biolo 	scientists co ogical diversity troduced the te 980a rsity. e first named in	was first used b was first used b erm biodiversity nd other leading n 1988 by	biodiversity in the fo by to the scientific comm g conservation scienti	Ilowing: (8 marks nunity. sts advocated the use of
2- a) V	Nrite on latitud	inal gradients	s in species div	versity	(2 marks)
b)	The threats fa	cing biodiver	sity are:		(5 marks)
	1		and the second s	·····································	n na sana na s
(i) (i) (ii)	2		2001-012	A A STATISTICS	the lattice of the lattice is
	3		·····	1. 1	e en la Re-marcale
	4	•••••			$= (T_{1})^{1/2} (T_{1})^{1/2$
	5				
3- (a)	Illustrate by or	nly drawing th	ne following:		(4 marks)
×	1- Sycon wa	ter canal syst	tem.	and the share as a	Service of the servic
	2- Amphibla	stula larva.			
÷	3- Body wall	of sponge.			
(b)	Compare in a	form of table	between spon	ge classes	(6 marks)
4- Wr	ite on the follo	wing:			(15 marks)
(a)) Dimorphism i	n phylum Cni	idaria.		1
(b)	Cnidocystes.				(3 - 1) = (3 -
(c)	Economic im	portance of C	nidarians.		
			Part II: (40	Marks)	
Illustr	ate a diagram	explaining the	e life cycle natt	ern of digenetic tre	matodes (6.5 marke)
II Whet	is moont by th	o following to	rme alue even		oiblou
n. wrat	is meant by the	e ronowing te	nns, give exan	ipies whenever pos	ס)שועופ,שועופ, marks)
III Com	Microtriches	- Haptor - Te	ST) of the correspond	ing category (7 5 Morte
			aivai staye (S	, or the correspond	nig category(7.5 Marks
New	Categ	jory		larval	stage
Nem	aloca				·
Subo	Jass. Digenea				مستعدية والمستقر والمستعد والمستعد

Category	larval stage
Nematoda	A STATE AND A STATE AND A STATE
Subclass: Digenea	
Class: Monogenea	All a state of the second
Subclass: Cestodaria	
Subclass: Aspidogastrea	- II++

Part IV: (30 marks)
A. Choose the correct answer:(5 marks)
1- All these animals are filter feeders except.
* Some sharks * petromyzon * ascidia * amphioxus
2- All these animals have larval stage except.
*Ascidia * Amphioxus *Petromyzon * Frog
3- Feathers are the exoskeleton of
* Penguin * Bat * Whale * Turtle
4 is a fresh water animal.
* Shark * Raya * Ascidia * Tiliapia
5- The double life animals are
* Protochordates * Mammals * Amphibians * Aves
B - Odd one word out and mention why?(10 Marks)
* Cycloid scales - Placoid scales - hair - cartilage.
·
* Salamander - Lizard - Snake - Tortoise .
* Frog - Petromyzon - crocodile - Pigeon.
* Sicilian - newt - toad - rat.
* Horse -Ostrich - Rabbit - Toad

Good luck

EXAMINERS	PROF. MOHAMED HASSAN MONA	PROF. IBRAHIM BAKR HELAL
	PROF. DALIA FOUAD AFIFY	DR. AALAA IBRAHIM ATLAM

1969			TANTA UNIVERSITY FACULTY OF SCIENCE		
	EXAMINATION FOR LEVEL 1 STUDENTS (BIOLOGY SECTION)				
	COURSE TITLE:		Quality Culture	COURSE CODE: UN 1210	
DATE:	JUNE 6, 2017	TERM:SECOND	TOTAL ASSESSMENT MARKS:50	TIME ALLOWED: 2 HOURS	

أجب عن الاسئلة الاتية : (٥٠ درجة)

السؤال الأول (١٠ درجات) فسر المصطلحات الأتية: الإعتماد- رسالة الكلية- التقرير السنوى- المعايير الأكاديمية القومية المرجعية (NARS)-البرنامج التعليمي

السؤال الثاني (٢٠ درجة) اكتب باختصار عن معايير اعتماد مؤسسات التعليم العالى (القدرة المؤسسية والفاعلية التعليمية).

> السؤال الثالث (١٠ درجات) للطالب دور فعال في منظومة ضمان الجودة ... وضبح أهمية هذا الدور.

> > السؤال الرابع (١٠ درجات) اشرح الأنواع المختلفة لمخرجات التعلم المستهدفة (ILOs).

> > > مع أطيب الأمنيات بالتوفيق

أ.د. عبير علم الدين	أ.د. محمود أبواليزيد	الممتحنون



			TANTA UNIVERSITY FACULTY OF SCIENCE DEPARTMENT OF ZOOLOGY	
		FINAL EX	AM FOR 1 ST YEAR BIOLOGY STUDEN	TS
1909	COURSE TITLE:	INTRODU	CTION TO ENTOMOLOGY 2	COURSE CODE : EN 1204
DATE:	JUNE 2017	TERM: SECOND	TOTAL ASSESSMENT MARKS:100	TIME ALLOWED: 2 HOURS

Notice! The exam consists of Two pages

Answer the following questions:

Section: A (50 mark total)

- 1. <u>Choose the correct answer from between the brackets (Total</u> 10Marks, 2 Marks each)
 - a- In the state of propagative biological transmission, the pathogen change in (number- shape- both of them).
 - b- Dragon fly is predaceous during (naiad- adult- both stages).
 - c- Parental care is an example for relation between (insect with insect insect with man- insect with plant).
 - d- Smell receptors found on (antenna-leg- abdomen).
 - e- (Female- male- larva) of horse fly suck the blood of horses.
- 2- Indicate whether the following statements are true (T) or false (F) (Total 10 Marks, 2 Marks each):
 - a- Mutualism is a mutual benefit between two organisms and they can live apart ().
 - b- Insects can detect four types of sensory stimuli ().
 - c- House fly transmit diseases meachnically ().
 - d- Permanent parasite spends all the stages of its life on the same host ().
 - e- Heat receptors found on compound eye ().

3- Define the following terms (Total 10Marks, 2 Marks each)

- a- Entomophagus plants
- b- Parasitoid
- c- Inoculative release
- d- Social insects
- e- Insect behavior

4- Write <u>short notes</u> on each of the following <u>(Total 20Marks, 5 Marks</u> each)

- a- Dioneae sp.
- b- Types of stimuli
- c- Types of parasites
- d- Methods of defense in insects

Section: B (50 mark total)

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- 1. Put true ($\sqrt{}$) for the correct statements or false (\times) for the incorrect statements with correction : (Total marks 10, 2 marks each).
 - A. LC_{50} normally expressed as mg Kg⁻¹ and represents an indicator of the toxicity.
 - B. Mole cricket is a bi-functional insect to human Economy.
 - C. Fruit fly is able to breed in nearly all kinds of fruits and in many vegetables.
 - D. Insect's growth flourishes in warm weather than in cold weather.
 - E. Associations of individuals of the same species is known as inter specific relations and it may be beneficial.

2. Give the appropriate scientific term: (Total marks 10, 2 marks each)

- A. Is the process of management of honey bees in order to collect their honey and other products?
- B. A period of suspended activity of individual occurring during seasonal high temperature or in a dry weather?
- C. Is the most important physical factor which determines the duration of the various stages in the insect life cycle and the number of generations during any period of time?
- D. These substances interfere with the synthesis of chitin, the material that makes up the insect exoskeleton?
- E. A resinous mixture that honey bees produce by mixing saliva with beeswax with exudates from tree buds and have many biological and medical applications.

3. Complete the following sentences: (Total marks 10, 2 marks each)

- A.is the use of bee venom in treatment of rheumatoid and other diseases.
- B. Cantharidin is secreted by..... while silk is a natural secretion of.....
- C.are agents of chemical or biological origin that control insects.
- D. Death of insects at fatal high temperature is due towhile death at fatal low temperature is due to
- E.is highly toxic to non-target organisms and persist in the environment.

4. Give Short notes about: (Total marks 20, 4 marks each)

- A. Chemical structure and biological activities of probolis.
- B. Microbial insecticides.
- C. Commercial production of silk (in fully labeled diagram only).
- D. Classification of insecticides based on their mode of entry and mode of attack.
- E. Effects of non-biotic factors on insect population (light & moisture).

Good Luck

Examiners	Dr. Hanaa El-Brens	Dr. Yahya elnagar

	Tanta	UNIVERSITY, Facu	Ilty of Science, Depart	ment of Botany	Salts and Sal	
	Fi	Final Examination for (First Year) Students of Biology				
1260		COURSE T General Bota	TLE: any (2)	COURSE CODE:BO1202	A UNINER	
DATE: 11 JUN	IE, 2017	TERM: SECOND SEMESTER	TOTAL ASSESSMENT MARKS: 150	TIME ALLOWED: 2HOURS		

A) Choose the correct answer: (20 marks)

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- 1. Hydrogen bonds between water molecules gives rise to (cohesion adhesion both of them)
- 2. In diffusion, substances move down (a concentration gradient a pressure gradient both of them)
- 3. Suspensions are (heterogeneous unstable homogeneous stable homogeneous unstable) mixtures.
- 4. Milk is an example of (colloidal true emulsion) solution.
- 5. In osmosis, substances move down (a concentration gradient a pressure gradient both of them)
- 6. Buffer solution consists of (weak acid and its salt strong acid and weak base weak acid and weak base)
- 7. Excited chlorophyll can re-emit a photon and return to its ground state a process known as (phosphorylation fluorescence energy transfere)
- 8. Oxygen evolved from photosynthesis comes from (water carbon dioxide other substance)
- 9. Re-oxidation of a molecule of NADH leads to the formation of (2ATP 3ATP 1ATP)
- 10. Glycolysis takes place in (cytoplasm mitochondria chloroplast)

B) Put $\sqrt{\text{or } \mathbf{x}}$: (20 marks)

- 1. Particles of true solution scatter light ()
- 2. Colloidal solution is a heterogeneous stable mixture ()
- 3. Pressure bulk is the main mechanism responsible for long distance transport in the xylem ()
- 4. At the endodermis of the root, water movement through the apoplast is not available ()
- 5. When the guard cells of the stomata lose their water the stomata closed ()
- 6. Co-factor is the protein part of the enzyme ()
- 7. Non-competitive inhibition can be overcome by increasing the substrate concentration ()
- 8. In photosynthesis, the electrons comes from water are used to re-fuel PSII ()
- 9. Co₂ acceptor in Calvin cycle is 3-phosphoglycerate ()
- 10. Citric acid cycle takes place in mitochondrial matrix ()

C) With drawing <u>Only</u> show the following:

- 1. Steps of glycolysis (15 marks)
- 2. Curve which represents the effect of temperature on the rate of enzyme catalyzed reactions (5 marks)
- 3. Structure of chloroplast and mitochondria (15 marks). (Answer the next page)

II – Plant Systematic (75 Marks)

A) With labeled drawings only, show each of the following:

- 1. Puccinia life cycle on Barberry only. (12.5 Marks)
- 2. Scalariform conjugation in *Spirogyra*. (10 Marks)
- 3. Conjugation in bacteria. (10 Marks)
- 4. Lytic cycle of *lambda* virus. (12.5 Marks)

B) Choose the correct answer: (30 marks)

- 1. Genus name always capitalized and species name always lowercase. (True False)
- 2. Mitosis and meiosis divisions occur in prokaryotes. (True False)
- 3. Viruses can only be seen by electron microscope. (True False)
- 4. Viruses can be purified chemically by ultracentrifugation and collodion membranes. (True False)
- 5. Fungi are chlorophyllous, absorptive and heterotrophic organisms. (True False)
- 6. Xylem and phloem tissues are present in vascular plants, while those are absent in non vascular plants. (True False)
- 7. Anisogametes are those, which differ in shape and size. (True False)
- 8. The Fungal hyphae may be coenocytic or pseudohyphae. (True False)
- 9. Bacteria, which have many flagella over the whole surface of the cell, are known as (amphitrichous, peritrichous, cephalotrichous, lophotrichous)
- 10. Bacterial Cultures' method is used for the cultivation of (bacteriophages, phytophages, zoophages, molds)
- 11. Myxomycota forms a multinucleated mass of naked protoplasm called (hyphae, mycelia, plasmodium, haustoria)
- 12. Fungi are described as when the two sex organs are carried on different thalli. (homothallic, homogenous, heterothallic, heterogenous)
- 13. are those algae, which swim freely or floats on water. (Phaeophyta, Chlorophyta, Rhodophyta, Phytoplanktons)
- 14. Asexual reproduction of *Vaucheria* sp. takes place by the formation of a quadriflagellate zygospore. (True False)
- 15. Phaeophyta are brown algae due to the presence of (phycoerythrin, diatomin, fucoxanthin, phycocyanin) pigment.
- 16. Phycoerythrin pigments absorb (red light, UV, blue light, white light)
- 17. *Porphyridium* sp. has a choloroplast (spiral-shaped, star-shaped, cup-shaped, disc-shaped)
- 18. Asexual reproductive structures produced by lichens are (isidia, basidia, uredia, telia)
- 19. The mycobionts provide the photobionts the nutrients, which result from photosynthesis. (True False)
- 20. The fungal motile asexual spores are called (zoospores, oospores, aplanospors, zygospores).

Prof. Dr. Shimaa Abdelhamid Dr. Mohamed El-Shetehy

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	TANTA UNIVERSITY FACULTY OF SCIENCE DEPARTMENT OF PHYSICS	
<i>G</i> . 1	EXAMINATION FOR FRESHMEN (FIRST YEAR) STUDENTS	OF BIOLOGY
1949 	COURSE TITLE: GENERAL PHYSICS 2	COURSE CODE:PH 1224
DATE:	15 / 6/ 2017 TERM: SECOND TOTAL ASSESSMENT MARKS: 100	TIME ALLOWED: 2 HOURS
Relatives	Answer the following questions:	
	<u>First Question: (25Marks)</u> A-Define the following with SI units if find: Electric force-Electric charge density-Resistivity-Capacite	(15Marks) or-Gauss`s Law.
	B-Two equal point charges each equal 7µc placed at axis Third charge equal(5µc) at distance 3 m from origen at po Calculate the electric potential at point P and find the pot	(=+4m).lf placed bint P. (10Marks) ential energy.
	<u>Second Question:(25Marks)</u> A-Compare between the equivalent capacitances for two Parallel and series combination.	capacitors of (15Marks)
	B-Compute the following for Carbon nucleus(Z= 6) 1-Electric field. 2-Electric flux. 3-Electric potential. Where the radius of nucleus $4x10^{-15}$ m. ,e=1.6x10 ⁻¹⁹ c, ϵ_0 =8.3	(10Marks) 85x10 ⁻¹² C ² /N.m ²
	<u>Third Question:(25Marks)</u> A-Define the law of refraction.	(10Marks)
	B-Prove that the angle between the initial and final direct Is twice the angle between the two flat mirrors.	ion of the ray (10Marks)
	C-A certain spherical mirror has a focal length(10 cm).Lo the image for object distances(5cm).	cate, draw, describe (5Marks)
	<u>Fourth Question:(25Marks)</u> A-Draw and comment the image formed by fish under wa Flat_refracting surface.	ater for (10Marks)
	B-Explain the total internal reflection. C-Draw and describe the image formed by flat mirror	(10Marks)
	for extended object.	(5Marks)
	Best Wishes	

Constant of Constants		
- 3"	TANTA UNIVERSITY FACULTY OF SCIENCE DEPARTMENT OF PHYSICS	
	EXAMINATION FOR FRESHMEN (FIRST YEAR) STUDENTS	OF BIOLOGY
1969	COURSE TITLE: GENERAL PHYSICS 2	COURSE CODE:PH 1224
DATE:	15 / 6/ 2017 TERM: SECOND TOTAL ASSESSMENT MARKS: 100	TIME ALLOWED: 2 HOURS
Real Control of Control	Answer the following questions:	
	<u>First Question: (25Marks)</u> A-Define the following with SI units if find: Electric force-Electric charge density-Resistivity-Capacite	(15Marks) or-Gauss`s Law.
1960 - 1969 - 1969 - 1969 - 1969 - 1969 - 1969 - 1969 - 1969 - 1969 - 1969 - 1969 - 1969 - 1969 - 1969 - 1969 -	B-Two equal point charges each equal 7µc placed at axis Third charge equal(5µc) at distance 3 m from origen at po Calculate the electric potential at point P and find the pot	(=+4m).lf placed pint P. (10Marks) ential energy.
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	C-A certain spherical mirror has a focal length(10 cm).Lo the image for object distances(5cm).	cate, draw, describe (5Marks)
	<u>Fourth Question:(25Marks)</u> A-Draw and comment the image formed by fish under wa Flat_refracting surface.	ater for (10Marks)
	B-Explain the total internal reflection. C-Draw and describe the image formed by flat mirror	(10Marks)
18	for extended object.	(5Marks)
	Best Wishes	



الممتحنين : 1/ محمد عبد النبي غاتم + 1.1/ سمير محمد علي

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القسم الثاني (۲۰ درجة)

السؤال الأول: الحقوق المدنية والسياسية للإنسان. السوال الثالث: القانون الجنائي وحقوق الإنسان. السؤال الثاني: حق الإنسان في تغيير جنسيته. السوال الرابع: حقوق المرأة في قانون العمل. أجب عن سؤالين من الأسئلة الآتية:

القسم الأول (٨٠ درجة)

شعب مختلفة (شعبة العلوم الطبيعية، شعبة الجيولوجيا، شعبة البيولوجي) (مادة / حقوق الإنسان)

الزمن : ساعتان

المستوى الأول

كلية العلوم

جامعة طنطا

امتحان دور مایو ۲۰۱۷ التاریخ : ۲۰۱۲/ ۲۰۱۷

