ميرير, سولوړ

			Faculty of Science - Botany Department		
	Exami	amination for 2 nd level Students of special Microbiology			
کلیده العلمه	COURSE TITLE		Soil science علم التربسة	COURSE CODE BO2109	To to Kiny of
Date, 5	January 2014	TERM: First	TOTAL ASSESSMENT MARKS: 100	TIME ALLOV HOUR	

أجبب عبن الأسئلة التالية الســوال الأول: وضح كل ممايأتي: (۲۷ درجه) ١ – نشأة الشحنات الكهربية على سطح حبيبات الطين والدبال. (۱۰ درجات) ٢ - تكون نطاقات التربة Soil profile . (۱۰ درجات) ٣ - خصائص منطقة الجذور النباتية في التربة. (۷ درجات) الســـوال الثاني: اكتب ما تعرفه عن: (۲۷ درجه) ۱ ـ مرحلة الـ Pedogensis لتكوين التربة . (۹ درجات) ٢ _ أهمية الدبــــال في التربــة. (۹ درجات) ٣ ـ محلــول التريــة. (۹ درجات) السـوال الثالث: أشرح كل مما يأتـــي (١٨ درجة) ١- مصدر المادة العضوية بالتربة ومراحل تحلليها (۱۰ درجات) ٢ التركيب الكيميائي لمعادن التربة الثانوية. (۸ درجات) الســوال الرابع: اكتب ما تعرفه عــين: (٢٨ درجة) a - دور الكائنات الحيوانية في التربة. (۹ درجات) (۹ درجات) h - صور الماء في التربة c - العمليات الكيميائية التي تؤدى الى تكون التربة. (۱۰ درجات)

مدخر بولوحی

1209	Tanta University Faculty of Science Botany Department	THE WHITE STATE OF THE PARTY OF	
Theoretical exam.	Assessment = 100 marks.	Time allowed: 2 hours.	
Course Title = Instrumental	Course code = MB 2105.		
Microbiology special progra	Academic year: 2016/2017.		
Sophomores (Level: 2 – Semester: 1)		الإختبار في ورقة واحدة 12/1/2017.	

Answer the following questions (with fully labeled diagram, if possible):	Mark
1- Explain in brief the progress of PCR and its components.	20
2- Mention the experimental parameters and principle of affinity column	20
chromatography.	
3- Explain the principle of light absorption in the spectrophotometer and how	20
it can be used to determine the type and concentration of materials.	
4- Illustrate the microbial growth curve of a static culture.	20
5- Compare between the principles and vision pathway of SEM & TEM.	20
Total marks of written exam:	100

Best wishes Examiner:	Dr.: Anwer S.M. El-Badry.

and or have



TANTA UNIVERSITY, FACULTY OF SCIENCE, BOTANY DEPARTMENT



mination for level 2 Students (Special Microbiology)			
PRINCIPLES OF MYCOLOGY	Course Code: BO2103		

DATE: 29 / 12 / 2016

Course title:

TERM: FIRST

TOTAL ASSESSMENT MARKS: 150

Time Allowed: 2 hours

(Q1) Write on three of the following:

(50 mark)

- 1- Key to classes of Myxomycota and Mastigomycotina.
- 2- Stages of life cycle of *Claviceps purpurea*.
- 3 -Classification of Saprolegnia sp. and Physarum sp. and describe the life cycle of one of them.
- 4-Formation of ascocarp (Apothecium) in Discomycetes.

(Q2) Complete the following:

(50 mark)

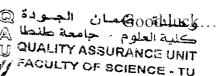
- 1- Stages of life cycle in Puccinia graminis..., ...,....and types of spores...,...and classification
- 2- Orders of Oomycetes, and of Zygomycetes ..., and
- 3- In Oomycetes, meiosis division occurs after the formation of and....
- 4- Classification of Pythium sp. and general characters ...,...,
- 5- Classes of Deuteromycotina ...,...and characteristics by...,...
- 6- Ascus wall of Ascomycotina may be ... or ... and asexual reproduction in Taphrina sp.by.....
- 7- Shapes of ascospores in yeasts, and classification of Saccharomyces cerivisiae.....
- 8- Classes of Ascomycotina ...,...,... ,... and asexual reproduction by ...,...
- 9- Classification of plasmodiophora which is present in the soil as and inside the host cell as......
- 10-Types of sporangia in Allomyces sp......and types of somatic structure in Saprolegnia sp.,....

(Q3)- Compare between each of two of the following: (3 only)

(50 mark)

- 1-Hypogean and Epigean Discomycetes.
- 2-Cleistothecium of Eurotiales and Erysiphales and ascocarp of *Claviceps* sp.
- 3-Different genera of Erysiphaceae.
- 4 Homothallic and heterothallic species of Rhizopus sp.
- 5-Gymenocarpous and angiocarpous Basidiomycotina

Prof. Dr. Omyma Ahmed Awadalla



	TANTA UNIVERSITY, FACULTY OF SCIENCE, DEPARTMENT OF BOTANY				
	EXAMINA	TION FOR SO	OPHOMORES STUDENTS OF	F MICROBIOLOGY	
	COURSETITLE:		Actinomycetes	COURSE CODE: MB 2107	F. William
DATE: 3-1- 2017	JANUARY, 2017	TERM: FIRST	TOTAL ASSESSMENT MARKS:	TIME ALLOWED: 2HOURS	

Answer the following questions:	
1-Complete the following sentences:	(15 marks)
a- Nocardiosis primarily presents as a or, it is moseen as the cause ofb- Mycobacterial growth ranged between and	ore frequently
c- Aerobic Actinomycetes with mycolic acids in their ce the following,	ell wall include
dis the characteristic form of <i>Corynebacterium</i> and <i>diphtheriae</i> causes a disease known as	C.
e-Streptomyces sp. characterized by production of,l	like,
2- Identify the following: mycetoma, signature protein, cons	served endless
•	(15 marks)
B-Mention industrial importance of Corynebacteria and Rho	dococcus sp.
	(20 marks)
-Discus pathogenicity of Mycobacterium leprae	(10 marks)
5- Compare between laboratory diagnosis (culture, staining nicroscopic features) and general characters of the follow Corynebacteria, Mycobacteria and Nocardia	wing:
	(20 marks)
5- Detect relation between pathogenicity and cell wall structu Mycobacteria	re of (20 marks)
Rest wishes	

Examiners: Dr. Nanis G. Allam, Prof. Dr. Omyma Aud-Allah

	Ut	NIVERSITY OF TANTA, DEPARTMENT	FACULTY OF S	SCIENCE
FINAL E	XAMINATION FO	OR (SOPHOMERS) Sec	ond YEAR STU	JDENTS BOT. & MICRO .
Course	TITLE: Cell Bio	ology	co	URSE CODE: Bo 2107
DATE: 10, JAN, 2017	TERM: FIRST	TOTAL ASSESSMEN	T MARKS: 100	TIME ALLOWED: 2 HOURS
	A = 0144	or the following	nuestion	s:

Answer the following questions:

Question 1:

Wright shortly on the following with labeled drawings if possible

(30 marks)

- 1) Functions of endoplasmic reticulum
- 2) Nucleosome.
- 3) Centromer composition and functions.
- 4) Chromosome banding
- 5) Protein fraction of plasma membrane.
- 6) Ultra structure of mitochondria.

Question 2:

Put (R) in front of wright sentences and (W) in front of wrong ones with correction (15 marks)

) Nucleolus composed only of RNA.	()	
2) DNA replication proceeds in both directions.	()	
3) Plasma membrane contains nucleic acids.	()	
4) Leucoplasts contain xanthene.	()	•
5) Nuclear sap contains nitrogenous bases and enzymes.	()	
6) Cristae are infoldings in both mitochondria outer and inner membranes.	()	
7) Production of RNA from DNA is called Transcription.	()	
8) Peroxisomes are filled only with peroxidase enzyme.	()	
9) Primary phagocytosis contains food material.	()	ļ
10- Replication is the production of DNA from RNA.	()	į

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TANTA UNIVERSITY FACULTY OF SCIENCE DEPARTMENT OF BOTANY

EXAMINATION FOR (SECOND YEAR) STUDENTS OF CHEMISTRY & MICROBIOLOGY

COURSE TITLE: DIVERSITY OF PROKARYOTES COURSE CODE:MB2101

DATE: 17 ,JANUARY,2017 TERM: FRIST TOTAL ASSESSMENT MARKS:150 TIME ALLOWED: 2 HOURS

Part II: (75 marks)

1-	Write short note on:	(30 marks)
a-		100 2224 2207
b-	Compare between: 1- Stigonema and Scytonema.	
	2- Chroococcos and Gloeocapsa.	
c-	Descried the different methods of reproduction in Nostoc.	
2-	Complete the following:	(30 marks
1-	Storage food in Cyanobacteria is	••••
2-	Reproduction by fission mean	••••
3-	The different between Chl a in Cyanobacteria and in bacteria is	••••
4-	Cyanobacteria are	••••
5-	Spirulina is rich with and	****
6-	Movement of Oscillatoria by and	
7-	Cyanobacteria reproduce asexually byand	•••••
8-	The branch of Tolypothrix isbra	anch.
9-	Cell wall of Cyanobacteria contain	acid.
10	- The position of heterocyst in Rivularia is	
3-	Answer the following questions with TRUE or FALSE and COR	RECT the
	false one:	(15 Marks)
1-	All Cyanobacterial organisms have capacity to fix atmospheric nitrogen.	
2-	The DNA and ribosomal components of blue-green algae are similar of tho	se bacteria.
3-	Heterocyst is main sites of nitrogen fixation under anaerobic condition.	
4-	Microcyst is secreting toxic substances in water.	
5-	Reproduction in Chroococcales takes place by heterocyst.	
6-	Same species of Cyanobacteria can be movement by florallo	

من فضلك انظر خلف الصفحة

7- All species of Rivularia can't form colony.

10-Oscillatoria is true branched Cyanobacteria.

8- Reproduction by hormogonia takes place in non-heterocystous species.

9- Heterocyst functions as secondary reproductive organs.

BOTANY DEPARTMENT - TANTA UNIVERSITY - FACULTY OF SCIENCE

Examination / Second Year All Levels

Course Code: BO2105

Course Title: **General Genetics** Term: First

22 January 2017

Total assessment marks: 150 | Time Allowed: 2 hours

ANSWER THE FOLLOWING QUESTIONS

1.	Write on the	following with	drawing if	possible ((<u>120 Marks)</u>
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- a. Types of changes in chromosome number and structure.
- **b.** Incompitability alleles in plants.
- c. Genetic balance and sex determination.
- **d.** Cell cycle and C-value.
- e. Different types of chromosomal systems.
- f. Genetic significance of mitosis and meiosis.

2. Mark the correct answers with the sign ($\sqrt{\ }$) and the wrong answers with (X) (30 Marks)

a.	The coat color in rabbit is controlled by four alleles. ()
b.	Meiosis I is called a reduction division. ()
c.	The ABO blood groups are controlled by single gene with four alleles. ()
	The seed coat color in garden pea is controlled by pseudo-alleles. ()
e.	Meiosis keeps the number of somatic chromosomes constant across generations. (
f.	Chiasma formation at meiosis is an indication of crossing over. ()
g.	The test cross involves two homozygous contrasting phenotypes. ()
h.	Genes must be transmitted from generation to generation via somatic cells. (
i.	Quantitative traits are mostly affected by the accumulation of genes. ()
j.	Monohybrid cross involves contrasting expression of the same character. ()

Examiners:

With our best wishes

Prof. Dr. Adel Elshanshory

Dr. Reda Gaafar