
	TANTA UNIVERSITY FACULTY OF SCIENCE DEPARTMENT OF BOTANY			
	FOURTH YEAR (MICROBIOLOGY) FINAL EXAM.			
COURSE TITLE:	Yeast, Protozoa, Nematoda and the role of insects in disease transfer		COURSE CODE: 14083	
DATE: 12/1/	January, 2013	TOTAL ASSESSMENT MARKS: 60	TERM: FIRST	Time allowed: 3 hours

Answer the following questions with drawing if possible:-

Section I:- Yeast

20 Mark

1- Discuss briefly three only from the following:

12 Mark

- a- Test used for pheromone activity.
- b- Growth measurement of yeast.
- c- Key to the major basidiomycetous yeasts (McGinnis, 1980).
- d- Life cycles of ascosporeogenous yeasts.

2- Choose one answer.

8 Marks

a- The pheromones of the Tremellales have been named:

1. tremmerogens- 2. α -pheromone- 3. A-pheromone-
4. a-pheromone

b- The pheromone of *R. toruloides* is termed:

1. rhodotorucin A- 2. rhodotorucin B- 3. rhodotorucin F-
4. rhodotorucin C

c- Yeast could be occur:

1. in plants 2. in soils, water 3. in association with animals 4. All of them.

d- The Yeasts from taxonomic point of view are:

1. Ascomycetous 2. Basidiomycetous 3. Deuteromycetous
4. All of them.

e- The term teleomorphe is:

1. The sexual life cycle of the yeast organisms 2. The asexual life cycle of the yeast organism 3. The sexual and asexual life cycle of the yeast organism 4. All of them

f- The Yeasts from growing point of view are better to be growing in:

1. Batch culture form 2. Continuous culture 3. Solid media form-
4. All of them

g- DNA/DNA hybridization data are being used:

1. To show phylogenetic relationships in both the imperfect genera and species. 2. To confirm the yeast identification at species level. 3. To determine the similarities between two yeast species.
4. All of the above.

h- *Filobasidiella neoformans* strains may be:

1. homothallic
2. homothallic and heterothallic
3. heterothallic
4. sterile

Section II:- Protozoa, and Nematoda

20 Mark

1- First question

15 Mark

a-Discus the role of saliva in Nematoda Feeding?

5 Marks

b- What are the main symptoms of *Dilophospra* diseases of Cereals?

5 Marks

c- Compare between control of Coconut Palm Nematode and Banana root rot diseases?

2.5 Mark

d -What are symptoms of Dwarf disease of Rice?

2.5 Mark

2- Second question: Complete the following:

5 Marks

a- Sugarcane Mosaic transmitted

b- Causal organism of Sugar Beet Nematode disease.....

C -*Meloidogne hapla* causedisease and its

symptoms,

d -*Ditylencus dipsaci* cause

Section III:- Role of insects in disease transfer

20 Mark

1- Compare briefly between the following:

10 Marks

a) Leaf hopper (*Ommatissus binotatus*) and frog hopper (*Thomapsis saccharina*).

b) *Phytomonas coronofaciens* and *Phytomonas angulata* diseases.

2- Explain the following:-

10 Marks


a) How insects transmit bacteria and fungi with mention examples for each method.

b) The relation between flea beetle and tomato leaf spot disease (explain the disease).

Best wishes

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Prof. Dr. Eman Abd El-Zaher

	TANTA UNIVERSITY Faculty of Science Department of physics			
	EXAMINATION FOR FRESHMEN (FOURTH YEAR) STUDENTS OF GEOLOGY AND MICROBIOLOGY			
Course title:	حاسب ألي (رابعة ميكروبيولوجي وعلم الحيوان)		Course Code:	
Date:	Jan: 2013	Term: first	Total assessment Marks:30	Time ALLOWED: 2 hours

Answer The Following Questions:

First Question:

Complete the following sentences:

1. All data in a field of database have the same
2. To display the main database window we press.....
3. The data type of phone number in a table of data base must be.....
4. A database cannot be created without at least one
5. A raw in database table represent one.....
6. Calculation cannot be made in.....of database.
7. A column in database table represents one.....
8. The date type of birth day field in a table of database must be.....
9. The toolbox in Access Program contains several buttons such as;.....
10. The suitable data type of salary field in a table of data base is

Second Question:

1. Write short note about the different types of relationships between tables.
2. Define the following objects: Table; query; Form; Report

Third Question:

1. What is the function of make a crosstab query and write down the steps of creating it.
2. Explain briefly the different ways of creating a form.

EXAMINERS	prof.dr. g.a.gaballa	

