	Tanta University Faculty of Pharmacy Department of Microbiology Examination for Prepharmacy Students				
TUNINE					
جامعة طنطا كلية الصيدلة	Course Title:	Biology		Course Code: 1247	
Date	21/1/2014	Term : First	Total Assesment Marks:150 Total Pages:11	Time Allowed: 2 Hours	
.(موع درجات 37.5 درجة	د/ نهلة العشماوى (بمج	Par خاص باسئلة أ Part حاص باسئلة أ Part و عقب الامتحان مباشرة) با	ج- الجزء الثالث Three	
			ى (5) صفحات.	") تأكد أن الأسئلة تقع في	
		رجوع إلى أستاذ المادة	فَى ترتيب الأوراق يجب ال	ز) عند اكتشاف أى خطأ	
	ALL QU	ESTIONS ARE T	O BE ATTEMPTED		

0 3

1) Limitations of Whitta	aker' classification of living or	ganisms (1969) are	
a-	_		
b-			
		,	
Two characters of a prokaryotes are	rchaebacteria which are more	similar to eukaryotes than to)
a-			
b-			
3) Two similarities bet	ween yeasts and plant cells ar		
a-	veen yeasts and plant cens at	e	
b-			
D-			
 Mutations of mitoch genetic diseases, sur 	ondrial genes have been impl ch as	licated in a number of	
a-	b-	C-	
5) The interphase of Es	scherichia coli - cell cycle is		
	and it depends on		

6) The synaptic vesicles is located in	and
its function is	
7) Three types of the cells forming connective tissues are	
a-	
b-	
C-	,
8) Three functions of smooth endoplasmic reticulum are	
a-	
b-	
C-	
Biological events in telophase I of meiosis are	
40.5	
10) During the mitosis the synthesis of microtubules is done in	
phase(s) , while the synthesis of mRNA is done in	phase(s)
44) The true times of wide is an	
11) The two types of mitosis are a which is occurred in	
b which is occurred in	
b which is occurred in	
12) Regulatory genes of eukaryotic cell cycle are	
a-	
b-	
5-	1500
13) Terminal differentiation of stem cells means	
and the example of these calls is	
and the example of these cells is	

3				
II) Explair 1) Does Ca advanta	n how? arl Woese classifi ges over Whittake	ication (1990) of er and Margulis c	(12 living organisms p lassification(1978	2 Marks,10 Min.) provide greater)?
2) Could	you determine th	e sizes of riboso	mes of animal and	l bacterial cells?
3) Do cor	tain viruses indu	aa tuurana2		
3) DO CEI	tam viruses muu	ce tumors?		

III) What are the? (12 Marks, 10Min.)

1) Mechanism of apoptosis

2) The structure (and biological roles) of nuclear envelop

Possible steps for production of farm animals (e.g. sheeps) by stem cell technology

IV) How o	could you differed	ntiate betweenian chromosomes	(16 Mark	(s, 10 Min.)

2) The min and par mutants of bacteria

3) Monosomy and endoploid cells

4) The amniotic and embryonic stem cells