


Tanta UNIVERSITY, Faculty of Science, Department of Botany		
Final Examination for (First Year) Students of Biology		
COURSETITLE: General Botany (1)		COURSE CODE:BO1101
DATE:28DECEMBER, 2016	TERM: FIRST	TOTAL ASSESSMENT MARKS: 150
		TIMEALLOWED:2HOU RS

I –Plant Morphology (75 Marks)

A. With labeled drawings (when possible), write on Five of the following (50 Marks, 10 Marks each)

- | | |
|---|------------------------------------|
| 1. Seed composition | 2. Different types of leaf margin. |
| 3. The different types of habitsof stems. | 4. Tap root |
| 5. Sessile raceme inflorescences. | 6. Stem metamorphosis |

B. Mark eachsentences with true(√) or false (X),and correct the false ones (10 Marks, 2 Marks each)

- Vitis* is considered as a monopodial branching of stem ()
- The hypogeal germination characteristic by cotyledonary leaves ()
- Running stem plants has prop root ()
- Scorpioid inflorescence is a cymose inflorescence ()
- Sucking root is adventitious root that has air cavity for gas exchange ()

C. Complete the following sentences (15 Marks, 1 Mark each)

- is the region in root that responsible for cell division and coated by.....
- Buds may beif it located on the apex of stem or..... bud if it located at root.
- Cauline leaf arrangement may be.....
- Tendrill leaf plant has..... stipules.
- Raceme inflorescences havesuccession, however cymose hassuccession.
- is the leafy stem which has one internode, however,.....has more than one internode.
- venation is very important according toand.....
- Onion has two types of leafand.....

II – Plant Anatomy (75 marks)

A. With a beled diagram when possible, write on each of the following (35 Marks, 7 Marks each)

- | | |
|---|------------------------|
| 1- Ribosomes | 2- Secondary meristems |
| 3- Nucleus | 4- Storage starch |
| 5- Structure and function of chloroplast. | |

B. Complete the following (only write the answer) (20 Marks, 2 Marks each)

- Cholenchyma is found in dicot stems as or
- At maturity, xylem losses its function by,while phloem loses its function by
- Dual function of xylem is and
- Sieve elements are found in Angiosperms in form ofbut in Gymnosperms in form of
- Lignification of protoxylem might beor
- Increase in plant length may be due to the activity oformeristem
- Tracery elements in xylem areand
- Companion cell provide andto sieve cell
- Sieve plate wall isand contain pores called
- Plants are protected against biological agents byand.....

C) Check (√) or (x) for each sentence and correct the false one (20 Marks, 2 Marks each)

- Blind pits are formed when xylem vessel neighbors parenchyma cell ()
- Prebilem is a merstematic tissue responsible for production of ground tissue ()
- Cartligenous collenchyma have cellulose depositions on its tanginental wall ()
- Formation of ATP takes place on mitochondrial crestia ()
- Leucoplast is concerned with food secretion ()
- Concenteric vascular bundles are common in lower plants ()
- Sclerenchyma is widely distributed than collenchyma ()
- Cambium is considered as an apical meristem ()
- Protein body is composed of globoid and amorphous matrix ()
- Phloem is concerned with transmission of nutrients and stimuli between cells ()



Best wishes.....

Examiners:

Dr. Mostafa Elshobary

Dr. Khalil Saad Allah

وحدة ضمان الجودة
 كلية العلوم - جامعة طنطا
 QUALITY ASSURANCE UNIT
 FACULTY OF SCIENCE - TU

	جامعة طنطا كلية العلوم قسم النبات		
	إمتحان المستوى الأول - بيولوجى		
	UN1107 رقم المقرر	الثقافة البيئية	
2 يناير 2017	الفصل الأول	درجة الإختبار: ٥٠ درجة	زمن الإختبار: ساعتان

أجب عن أربعة أسئلة فقط على ان تكون إجابة كل سؤال فى صفحات مستقلة

السؤال الأول: اجب عن سوالين فقط مما يأتى: (١٢.٥ درجة)

- ١ - أنواع الكوارث البيئية وأقسامها والمراحل الأساسية لإدارة الكارثة.
- ب - أنواع الفيضانات وأسبابها وكيفية التقليل من مخاطرها.
- ج - التصحر وأسبابه والجراءات التي يمكن اتباعها لمكافحة التصحر.
- د - ابعاد التنمية المستدامة ومعوقات التنمية المستدامة فى جمهورية مصر العربية.

السؤال الثانى: أكتب فى أربعة فقط مما يأتى (١٢.٥ درجة)

- ١ - من دراستك لمقرر الثقافة البيئية وضح أهم المهارات التى اكتسبتها.
- ب - اذكر أهم العوامل التى أسست لمركزية الإنسان فى تعامله مع البيئة.
- ج - وضح كيف يتحقق الإنزان فى النظم البيئية من داخل النظام نفسه.
- د - تناول بالشرح دور الإنسان فى الحفاظ على البيئة.
- هـ - وضح كيف يكون للمحميات الطبيعية دور فى الحفاظ على التنوع الحيوى متناولاً بالشرح إحدى المحميات الطبيعية فى مصر.

السؤال الثالث: اجب عما يأتى (١٢.٥ درجة)

- ١ - أذكر أربعة من الأنظمة الرئيسية التى يمكن إستخدامها للسيطرة على تلوث الهواء.
- ب - ما هى الآثار التى تسببها الضوضاء؟
- ج - ناقش بإحتصار (طبقة الأوزون) من حيث - أهميتها - العوامل المؤثرة فيها - المقصود بنضوبها - كيفية الحفاظ عليها؟
- د - ناقش الآثار الحيوية للأشعاعات المؤينة.


السؤال الرابع: اجب عما يأتى (١٢.٥ درجة)

- ١ - ماهى مصادر ملوثات الماء.
- ب - أذكر مراحل معالجة مياه الصرف الصحى.
- ج - ناقش تلوث المياه باللفظ ومشتقاته؟

السؤال الخامس: أكمل ٦ فقط من العبارات التالية ثم أكتبها كاملة فى كراسة الإجابة (١٢.٥ درجة)

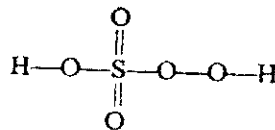
- ١ - التربية البيئية عبارة عن
- ٢ - تعد الجامعة مجموعة من المتخصصين فى مجال البيئة مثل: ١ -
- ٣ - تمثل الجامعة لحل المشكلات البيئية لكونها تشتمل
- ٤ - المشاكل البيئية مشاكل لذلك فإنها تحتاج الى
- ٥ - لكى تقوم الجامعة بدورها فى خدمة البيئة فقد أنشأت بها
- ٦ - التنوع الحيوى عبارة عن
- ٧ - من فوائد وأهمية التنوع الحيوى
- ٨ - بنك الأصول الوراثية عبارة عن
- ٩ - العوامل الطبيعية التى تودى الى نقص التنوع الحيوى هى

اد/ محمود عشاوى اد/ عبد النعيم الاسيوطى اد/ طلعت ميز اد/ رفاعى فناوى اد/ أحمد شرف

	TANTA UNIVERSITY FACULTY OF SCIENCE DEPARTMENT OF CHEMISTRY		
	FINAL EXAMINATION FOR 1 ST YEAR STUDENTS (ALL GROUPS)		
COURSE TITLE: General Chemistry (I)		COURSE CODE: CH1101	
DATE: 9 TH JANUARY, 2017	TERM: FIRST	TOTAL ASSESSMENT MARKS: 150	TIME: 2 Hours

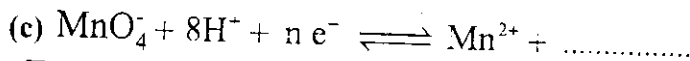
Answer the following questions with questions 1, 4, 5, 6, 7 out of 15 marks each. Questions 2, 3 and 8 out of 25 marks each.

- 1- Underline the correct answer and complete as appropriate then transfer to your Answer Sheet:
 (a) In persulphuric acid of the following structure:

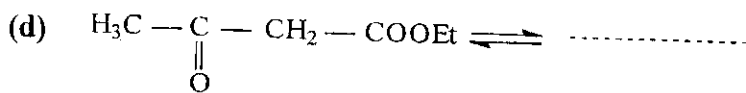


Given the electronegativity of S = 2.58, that for O = 3.44 and that for H = 2.20, then:

- The number of O atoms having oxidation number = 0 is (0 / 1 / 2 / 3 / 4 / 5) atoms.
 - The number of O atoms having oxidation number = -1 is (0 / 1 / 2 / 3 / 4 / 5) atoms.
 - The number of O atoms having oxidation number = +1 is (0 / 1 / 2 / 3 / 4 / 5) atoms.
 - The number of O atoms having oxidation number = -2 is (0 / 1 / 2 / 3 / 4 / 5) atoms.
 - The oxidation number of S is and that of H atoms is
- (b) For ${}_{24}\text{Cr}$, the electronic configuration $3d^4 4s^2$ has (6 / 10) exchanges but the electronic configuration $3d^5 4s^1$ has (6 / 10) exchanges. Therefore, the stable electronic configuration of ${}_{24}\text{Cr}$ is ($3d^4 4s^2 / 3d^5 4s^1$). The oxidation state Cr^+ arises from the electronic configuration ($3d^4 4s^2 / 3d^5 4s^1$).



To get the equivalent weight of KMnO_4 , we divide the molecular weight by



Keto-form

Enol-form

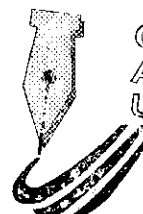
2- (a) Calculate the mole fraction of a solute in its 2 molal methanolic solution. (For methanol M = 32 amu)

(b) Work out the formal charge in CO and O₃ then indicate the accepted structure of each compound given you have ₆C and ₈O.


(c) According to VSEPR theory, give the geometry of the following molecules:

- ammonia molecule NH_3 , ammonium ion NH_4^+ and iodine heptafluoride IF_7 .

(d) Apply Graham's law of diffusion to the uranium enrichment process to D (${}^{235}\text{UF}_6$) / D (${}^{238}\text{UF}_6$) Given the atomic mass of each fluorine as 19 amu.



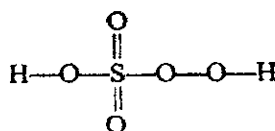
3

	TANTA UNIVERSITY FACULTY OF SCIENCE DEPARTMENT OF CHEMISTRY		
	FINAL EXAMINATION FOR 1ST YEAR STUDENTS (ALL GROUPS)		
	COURSE TITLE: General Chemistry (I)		COURSE CODE: CH1101
DATE: 9TH JANUARY, 2017	TERM: FIRST	TOTAL ASSESSMENT MARKS: 150	TIME: 2 Hours

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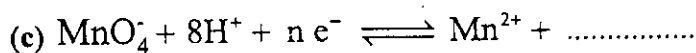
1- Underline the correct answer and complete as appropriate then transfer to your Answer Sheet:

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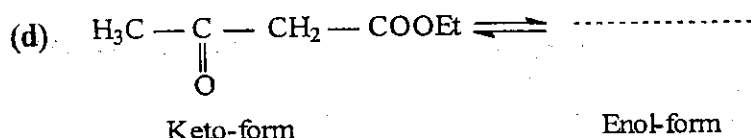


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 Given the atomic mass of each fluorine as 19 amu.

انظر خلف الصفحة

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TANTA UNIVERSITY
FACULTY OF SCIENCE
DEPARTMENT OF ZOOLOGY

EXAMINATION FOR FRESHMEN (1ST YEAR STUDENTS) OF BIOLOGY
COURSE TITLE: GENERAL ZOOLOGY 1

DATE: 14 JAN., 2017

TERM: SUMMER COURSE

TOTAL ASSESSMENT MARKS: 150

COURSE CODE: ZO 1101

TIME ALLOWED: 2 HOURS

Part 1 - Environmental relations (7.5 Marks)

(A) Answer the following:

- a. Write briefly on Shelford's law of the tolerance.
- b. Describe the soil translocation.

(12 Marks)

(B) Complete the following:

a. Soil invertebrates are classified according to their size into

- 1-..... 2-..... 3-..... 4-.....
- b. Mesophilic means..... while xerophilic mea.....

(13.5 marks)

c. Eluviation refers to..... While Illuviation refe.....

d. Ecological data may be useless for several reasons:

- 1-..... 2-..... 3-.....
- e. The euedaphons means..... while the hemiedaph means.....

5 marks)

f. Allopatric speciation means..... while sympatric specia means.....

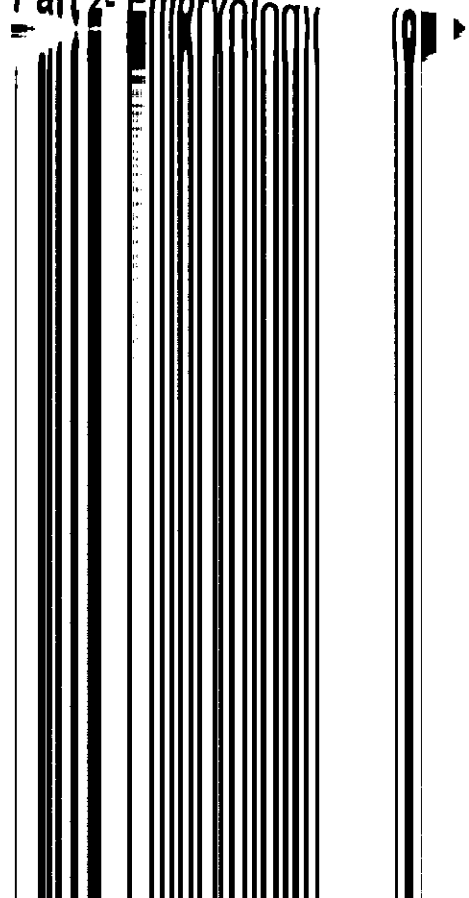
15 marks)

(C) Answer the following:



- a. Define: Ecosphere-Niche-ecotype
- b. Explain competitive exclusion theory.

(12 marks)

Part 2- Embryology



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	DEPARTMENT OF MATHEMATICS TANTA UNIVERSITY FACULTY OF SCIENCE (Computer Science Division)		
	EXAMINATION FOR PROSPECTIVE STUDENTS (1 ST YEAR)		
COURSE TITLE: Programming		COURSE CODE: CS1101	
DATE: 24-1-2017	JAN 2017	TERM: T	TOTAL ASSESSMENT MARKS: 150 TIME ALLOWED: 2 HOURS

Question 1:

- Define computer program and computer software and networks? Define source code? Define object code? Write the four main type of Variables with their format?
- Write a program to print out the following number 8756.456 as Integer number, then float with two decimal number, and float number?
- Can you write the nested for loop to calculate the multiplication Table till $m \times n$?
- Write a program that take the Character and print out the ASCII Code of that Character using Scanf and Printf? What are the main three types of secondary memory?

Question 2:

- Define Algorithm and program? What are a good Algorithm and a good program? What is the job of the printf and scanf functions? Give an example with integer and float variables?
- Define the array? How to assigned variable and string to it? Write an example to fill array? What you should do to print out the values of array, give an example?
- Write a C program to read an array with ten float numbers and multiply it by number 10 and then print it on the screen?
- Write a program to calculate the factorial for any value n ? Write a program to read four real numbers on the screen then calculate the summation, multiplication with the avrage and print them.

Question 3:

- Write if.....else if....else if ... else and switch..... Case Branches with same example? What is the deference between while loop and dowhile loop, give an example?
- Describe the three main component of any Function? Can you describe the differences between void-functions and functions that return value? Write an example?
- Write a C program that calling function to calculate the Cube and square of any number n ? How to describe the two dimensional array, Give an example? How to initialize the two dimension array by characters?
- Write a program to read two float numbers and then replace (swap) the two values and print the two values on the screen?

EXAMINERS	PROF. DR./ ATLAM ELSAYED	DR/ MOSAAD WGEEH
	DR/	DR/

With my best wishes

انتهت الأسئلة.....مع أطيب الأمنيات والتوفيق