

Answer the following questions:

① Rewrite the following sentences and put (✓) in front of the correct sentences and a (x) in front of the incorrect sentences and then correct them: (10 Marks)

- 1- Word tables can be created using the Tables Group in the Insert Tab. ( )
- 2- To enter an equation in Excel program we must start with = sign ( )
- 3- The clipboard can be shown by using the Insert Tab. ( )
- 4- The Font and Paragraph Groups can be used to edit a text. ( )
- 5- The computer consists of two basic parts software and screen ( )
- 6- Clip Art can be added using the View Tab. ( )
- 7- The clipboard can contain more than 12 items. ( )
- 8- To select the entire column in Excel we click on the row number. ( )
- 9- A chart can be created in Excel by clicking the Review Tab. ( )
- 10- The Recycle Bin received the cutted and the copied objects. ( )

2- What are the following abbreviations stand for: (10Marks)

- CU
- ROM
- FTP
- CPU
- HTML

3-a) Mention the different procedures for running programs (10Marks)

b) Write the different methods to Insert functions in Excel 2007. (5Marks)

4- Type the steps necessary to do each of the following (15 Marks)

- i- To add a Table in a Word Document by different methods
- ii- To insert a Numerical series containing the even numbers between 4 and 16  
In Excel
- iii- To find the slope of a straight line using excel with three different methods

**Best Wishes**

Examiners: Dr. A. Abeldayem

Dr. S. About-Elnein



TANTA UNIVERSITY  
FACULTY OF SCIENCE  
DEPARTMENT OF ZOOLOGY

FINAL EXAM IN ZOOLOGY FOR PRE-DENTISTRY STUDENTS IN CY: 2016 - 2017

COURSE TITLE:	ZOOLOGY & GENETICS	COURSE CODE: ZO1101 + ZO1202
DATE:	JUNE 19, 2017	TERM: 1 <sup>ST</sup> & 2 <sup>ND</sup>
TOTAL ASSESSMENT: 24 MARKS		TIME ALLOWED: 3 HRS

N.B.: Zoology Exam in two pages and Genetic Exam in a separate paper  
ملاحظة: امتحان علم الحيوان في صفتين وامتحان الوراثة في ورقة مستقلة

Answer the following questions and make fully labeled illustrations whenever possible

I- Write in details on only three from the following: (2 marks/each)

- With a fully labeled illustration, show the mode of action of Na<sup>+</sup> - K<sup>+</sup> pump in ions transport across the cell membrane.
- Explain factors affecting the enzyme activity.
- Mention the main stages of the cellular respiration? Make a labeled diagram to show the final step.
- Describe the homeostatic mechanism to regulate the body temperature in a hot weather.
- What is the reflex action? Describe the main types of reflexes giving an example per each type.

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II- A) Write short notes on: (4 marks)

- General characters of connective tissue.
- Classification of glands according to mode of secretion.

B) With a fully labeled drawing show the structure of areolar connective tissue. (2 marks)

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III- A) Write (only) the appropriate term : (5 marks)

- ..... is covering the body wall of *Planaria sp.*
- ..... occurs when metacercariae enter the circulation and are distributed in abnormal sites.
- ..... is the period characterized by egg laying and the presence of the eggs in the tissues cause the greatest long term damage.
- ..... is the unite cell of excretory system in Nematode, While.....is the unite cell of excretory system in Trematode.
- ..... is infective stage of *Ascaris sp.*

B) Mention the infective stage and locomotory organelle of each species of the following: (3 Marks)

The species	Infective stage	Locomotory organelle
1) <i>Toxoplasma sp.</i>	.....	.....
2) <i>Trichomonasthenax.</i>	.....	.....
3) <i>Balantidium coli.</i>	.....	.....

IV- Choose the correct answer:

(4 Marks)

1- Scleroplast cells found in .....body wall.

- A) Protozoan                      B) Flat worms                      C) Cnidarian                      D) Sponges

2- Digestion in cnidarian occurs .....

- A) Intracellular                      B) extracellular                      C) both A&B                      D) none of the above.

3- Relationship between sponges and some moveable animals like crab is considered ..... relation.

- A) Symbiosis                      B) Commensalism                      C) Protection                      D)Parasitism

4- The most deadly nematocysts are found in .....

- A) box jellyfish                      B) Moon jellyfish                      C) Hydra                      D)Stony corals

5- Sponges are .....

- A) Diploblastic organisms with tissue level of organization.  
B) Proliferated organisms with cellular level of organization.  
C) Unicellular organisms with asymmetrical body shape.  
D) All of the above.

6- Forming gemmules in sponges represents ..... reproduction.

- A) sexual                      B) asexual                      C) both A&B                      D) none of the above

7- ..... work as stem cells can develop a variety of other cells.

- A) Scleroblasts                      B) Interstitial cells                      C) Gland cells                      D)Nematocysts

8- Cnidarians are more developed than sponges due to .....

- A) The cellular level of organization.  
B) Presence of alternation of generation.  
C) The tissue level of organization.  
D) All of the above.

Examiners:

Prof. Dr. Yousry E. El-Bolkiny	Dr. Ezar H. Hamed	Dr. Lamia I. Bakr	Dr. Mahy M. Mona

See Genetics Exam  
أنظر امتحان الوراثة

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TANTA UNIVERSITY  
FACULTY OF SCIENCE  
PHYSICS DEPARTMENT.

PHYSICS EXAM FOR PRE-DENTAL STUDENTS

DATE:	30/5/2017	TERM: SECOND	TOTAL ASSESSMENT MARKS:36	TIME ALLOWED:3 HOURS
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Answer the following questions: Best Wishes Prof. Dr M. Kamel Prof. Dr S. Aboul Enein

First Question: HEAT\_SECTION A (9 Marks)

- a) Explain the Platinum resistance thermometer and show what the Callendar and Griffiths Bridge is used for. (Hint: Draw the bridge, the graph, and the mathematical relations)
- b) For a monatomic molecule ideal gas calculate for one mole the following:
  - i- The ratio  $\gamma$
  - ii- The change in internal energy, the work done and the total energy transferred when its temperature increases from  $(-40^{\circ}\text{F})$  to  $(0^{\circ}\text{C})$  ( $R=8.31 \text{ J/mol K}$ )
- c) Explain an electrical method for determination the specific heat of a liquid

Second Question: PROPERTIES OF MATTER\_SECTION A (9 Marks)

- a) Define and write the units:  
Simple harmonic motion - Compressibility - Poisson's ratio - Surface Tension
- b) A simple pendulum has a period of 4.2 sec. When the pendulum is shorted by 1 m the period is 3.7 sec. Calculate:
  - i) The original length of the pendulum, and
  - ii) The acceleration due to gravity.
- c) By using the dimensional analysis derive the law of velocity of sound in a medium by knowing that the velocity ( $v$ ) is proportional to Bulk modulus ( $C$ ) and the density of the medium ( $\rho$ )

Third Question ELECTRICITY & MAGNETISM\_SECTION B (9 Marks)

- a) Define the following and write the formulas and units in each case:  
Electric field ( $E$ ), Potential energy (P.E), and Electrical potential ( $V$ )
- b) Write the forces formulas of all of the following:
  - (i) Between two electric charges  $q_1, q_2$
  - (ii) On a charge  $Q$  due to a magnetic fields
  - (iii) Magnetic force on a current carrying conductor and give an application in this case
- c) Answer the following:
  - i. State Gauss's law and use it to find the electric field due to a Plane sheet of charge
  - ii. Write a formula to show the dependence of the capacitance of a parallel plate capacitor on its construction parameters and then give an application uses this formula
  - iii. Use Ohm's law to calculate the equivalent resistance of two parallel resistances  $R_1, R_2$

Fourth Question: GEOMETRICAL OPTICS\_SECTION B (9 Marks)

- a) Explain the following and give an application for each case:
  - i- Retroreflection
  - ii-Critical angle
  - iii- Simple magnifier
- b) Write two formulas for each of the following and discuss:
  - (i) Refracting index of a transparent medium
  - (ii) Magnification of image in lenses
  - (iii) Mirror equation
- c) Answer the following:
  - i. Write and explain the Snell's law of refraction
  - ii. Discuss briefly a method for measuring the speed of light
  - iii. Draw an example to show how to form an image by a concave mirror

Tanta University

Faculty of medicine

Anatomy department

Final anatomy exam for primary dental

(6/6/2017)

Total (30) marks

Time 3h



1<sup>st</sup> question: (8marks)

Briefly describe the following:

- a- The main functional areas of cerebral hemisphere. (4marks)
- b- The groups of lymph nodes. (4marks)

2<sup>nd</sup> question: (7marks)

Mention the parts of the following:

- a- Uterus. (3marks)
- b- Large intestine. (4marks)

3<sup>rd</sup> question: (7marks)

Give short notes on:

- a- Pituitary gland. (3marks)
- b- Surfaces of the heart. (4marks)

4<sup>th</sup> question: (8marks)

Enumerate the following:

- a- Shapes of the bone. (4marks)
- b- Types of synovial joints. (4marks)

الأمتحان الشفوي:

يوم الثلاثاء ٢٠١٧/٦/٦ بعد التحريرى من رقم ٢٥٨ : ١

يوم الخميس ٢٠١٧/٦/٨ من رقم ٢٥٩ حتى آخر الكشف

فى قسم التشريح بالدور الأول (المشرفة) كلية الطب

GOOD LUCK

Tanta University Faculty of Dentistry  
Exam. of Final dental anatomy  
Course code : TDEN: 00.05  
Date : 24 May 2017

Department of Oral Biology  
For pre dental year  
Marks : 60 Marks  
Time Allowed : 3 hours



1. This exam consists of 2 pages.
- 2- Answer all questions

**1} Complete the following : (25 Marks, one mark each)**

- 1- Mesial cusp slope is longer than distal cusp slope in buccal cusp of .....
- 2- At the age of 9 years old the permanent mandibular 1<sup>st</sup> molar has its distal contact with .....
- 3- The last succedaneous tooth to erupt is .....
- 4- The identifying number of permanent mandibular left 2<sup>nd</sup> molar by FDI system is .....
- 5- The longest root of permanent maxillary 1<sup>st</sup> molar is .....
- 6- The dental formula of deciduous teeth is .....
- 7- The lingual cusp is 2/3 of the height of the buccal cusp in .....
- 8- ..... cusp is the most poorly developed cusp in permanent maxillary 2<sup>nd</sup> molar.
- 9- The Y shaped occlusal groove is most likely to be present in .....
- 10- The root of permanent upper central incisor is completed at .....
- 11- The normal sequence of eruption of permanent maxillary teeth is .....
- 12- The hardest tissue all over the body is .....
- 13- ..... is responsible for tooth attachment to alveolar bone.
- 14- The number of root canals in permanent mandibular 1<sup>st</sup> molar is .....
- 15- The eruption date of maxillary 3<sup>rd</sup> molar is .....
- 16- The deciduous mandibular left canine in **universal** system is represented by.....
- 17- Maximum intercuspation between maxillary and mandibular teeth occurs at .....
- 18- The geometric outline of occlusal aspect of the maxillary 2<sup>nd</sup> premolar is .....
- 19- The mesial and distal roots of permanent mandibular 2<sup>nd</sup> molar are inclined .....
- 20- The smallest tooth in deciduous dentition is .....
- 21- The number of cusps of deciduous mandibular 2<sup>nd</sup> molar is .....
- 22- The groove found mesially on the crown of mandibular 1<sup>st</sup> premolar is called .....

- 23- Root completed of permanent mandibular 1<sup>st</sup> molar is at .....
- 24- The name of deciduous tooth that shows the highest degree of cervical line curvature on its mesial surface is .....
- 25- In centric occlusion of deciduous dentition, the deciduous maxillary 1<sup>st</sup> molar occludes with .....

**{II} Distinguish the equivalent scientific terms of the following: {5 marks, one mark each}**

- 1- Spaces between teeth just cervical to contact areas: {.....}
- 2- Curved alignment of incisal ridges and buccal cusps tips in the dental arch observed from a lateral view: {.....}
- 3- A nonfunctioning cusp found in the permanent maxillary first molar: {.....}
- 4- A pyramidal elevation found on incisal edge of canine and occlusal surface of posterior teeth: {.....}
- 5- Vertical overlap in centric relation: {.....}

**{III} GIVE A SHORT NOTE ON: (30 marks, 5 Marks Each)**

- 1- Demonstrate with a full labeled diagram the **labial** surface of permanent maxillary lateral incisor (write its chronology).
- 2- Demonstrate with a full labeled diagram the **mesial** surface of permanent mandibular 1<sup>st</sup> molar and enumerate types of depressions on its occlusal surface.
- 3- Demonstrate why are the permanent 1<sup>st</sup> molars are considered the key of occlusion.
- 4- Embrasures.
- 5- Illustrate the geometrical outlines of the following aspects of permanent teeth and write the importance of geometric outline of question (e).
  - a- Distal aspect of permanent mandibular 2<sup>nd</sup> molar.
  - b- Occlusal aspect of permanent maxillary 1<sup>st</sup> molar.
  - c- Lingual aspect of permanent mandibular 1<sup>st</sup> premolar.
  - d- Mesial aspect of permanent maxillary 2<sup>nd</sup> premolar.
  - e- Mesial aspect of permanent maxillary canine.
- 6- Compare permanent and deciduous teeth (at least 5 differences).

*Good Luck*

*Oral Biology Department's staff members*

## القسم الأول

### أجب عن سؤالين فقط من الأسئلة الآتية:-

السؤال الأول : اكتب فى حق الإنسان كما ورد فى القانون الجنائى .

السؤال الثانى : تكلم عن حقوق الإنسان كما وردت فى الشريعة الإسلامية.

السؤال الثالث : اكتب فى حق الإنسان فى تغير جنسيته .

## القسم الثانى

أجب عن الأسئلة التالية:

(٦ درجات)

١- أذكر واجبات المريض .

(٤ درجات)

٢- اشرح المبادئ الأساسية لأخلاقيات مهنة طب الأسنان.



