**King Saud University**

**College of Science Zoology Department**



**جامعة الملك سعود**

**كلية العلوم**

**قسم علم الحيوان**

**103- ZOO (Principles of Zoology)**

Exams

**Midterm exams (30%)**

**Midterm1 Exam: Tuesday 24-6-1441 / 18-2-2020 @ 12 -1 pm**

**Midterm2 Exam: Tuesday 22-7-1441 / 17-4-2020 @ 12 -1 pm**

**Cumulative final exam (40%)**

**Laboratory (30%)**

**3 laboratory exams**

**(Hist. 10%, Para. 10% and Anat. 10%)**

**Lab notebook**

Attendance

**Absence for 25% of course hours (approximately 9 hrs.) including lab hours, student will be deprived from the course**

Evaluation and Assessment

|  |  |  |
| --- | --- | --- |
| **Grade** | **Activities** |  |
| **15%** | **First midterm exam** | **1** |
| **15%** | **Second midterm exam** | **2** |
| **30%** | **Practical** | **3** |
| **40** | **Final Examination** | **4** |
| **100** | **Total** |  |

**Principles of Zoology 103syllabus**

* Macromolecules:

(Carbohydrates, Lipids, Proteins)

* Structure, function and cytogenetic of the animal cell

(Basics of cell Biology, Prokaryotes Eukaryotes, Cell organelles)

* Cell division (cell cycle)
  + Mitotic division
  + Meiotic division (and sexual life cycle)
* Mendel and the gene idea:
  + The chromosomal bases of inheritance
  + First low of Mendel
  + Second low of Mendel
* Different animal tissues
* General characteristics and taxonomy of the Animal Kingdom
* General characteristics of Subkingdom Protozoa with selected representative examples
* Taxonomy and characteristics of the Animal Kingdom from Porifera to Chordata with selected representative examples
* An introduction in animal physiology with special emphasis on nutrition, digestion and metabolism

|  |  |  |
| --- | --- | --- |
| **Date** | **Content** | **Week** |
| **24-28/5/1441**  **19-23/1/2020** | **Introduction + Sciences (Lecture 1)** | **1** |
| **1-5/6/1441**  **26-3/1/2020** | **Biomolecules (Lecture 2&3)** | **2** |
| **8-12/6/1441**  **2-6/2/2020** | **Water + The Cell (Lectures 4&5)** | **3** |
| **15-19/6/1441**  **9-13/2/2020** | **The Cell + DNA (Lectures 6&7)** | **4** |
| **22-26/6/1441**  **16-20/2/2020** | **Cell Division (Lectures 8&9)**  **M1 Exam** | **5** |
| **29-3/6-7/1441**  **23-27/2/2020** | **Mendel + Animal Tissues (Lectures 10&11)** | **6** |
| **6-10/7/1441**  **1-5/3/2020** | **Animal Tissues + Taxonomy (Lectures 12&13)** | **7** |
| **13-17/7/1441**  **8-12/3/2020** | **Taxonomy (Lectures 14&15)** | **8** |
| **20-24/7/1441**  **15-19/3/2020** | **Taxonomy (Lectures 16&17)**  **M2 Exam** | **9** |
| **27-2/7-8/1441**  **22-26/3/2020** | **Taxonomy (Lectures 18&19)** | **10** |
| **5-9/8/1441**  **29-2/3-4/2020** | **Anatomy + Physiology (Lectures 20&21)** | **11** |
| **12-16/8/1441**  **5-9/4/2020** | **Physiology (Lectures 22&23)** | **12** |