

# JARAMOGI OGINGA ODINGA UNIVERSITY OF SCIENCE AND TECHNOLOGY SCHOOL OF AGRICULTURAL AND FOOD SCIENCES

#### FIRST YEAR SECOND SEMESTER UNIVERSITY EXAMINATION FOR

#### **B.SC. SOIL SCIENCE**

## 2017/2018 ACADEMIC YEAR

**COURSE CODE: ALS 3121** 

COURSE TITLE: WORLD OF WATER

EXAM VENUE: GROUP: YEAR 3 SEMESTER 2

DATE: EXAM SESSION: REGULAR

**TIME: 2 HOURS** 

#### **INSTRUCTIONS:**

- 1. Answer ALL questions in section A and ANY other 2 Questions in section B.
- 2. Candidates are advised not to write on question paper.
- 3. Candidates must hand in their answer booklets to the invigilator while in the examination room.

## **SECTION A [30 MARKS]**

## Answer ALL questions from this Section.

1.	State any SIX Global Water Policy objectives	(6 Marks)
2.	Briefly describe the following terms as applied in the understanding of water and heat: <ul><li>a) Specific Heat Capacity</li><li>b) Ocean Acidification</li></ul>	(3 Marks) (3 Marks)
3.	Using a lebelled diagram, Differentiate between a confined and unconfined aquifer	(6 Marks)
4.	State any SIX functions/values of wetlands	(6 Marks)
5.	Distinguish between the following terms as they apply in water quality parameters:	(2 Marks) (2 Marks) (2 Marks)

## **SECTION B** [40 MARKS]

### Answer ANY TWO questions from this Section.

- 6. Use a well lebelled diagram to discuss how **surface water**, **groundwater** and **rainwater** are generated by the water cycle (20 Marks)
- 7. Discuss groundwater under the following themes: (i) Potential Threats to Groundwater; (ii) Groundwater Overuse and Depletion (20 Marks)
- 8. Discuss the FOUR major types of Water Pollution (20 Marks)
- 9. Describe the FIVE impacts of climate change on water **availability** and **water quality** in other sectors. (20 Marks)

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