



**UNIVERSITY OF SWAZILAND**  
**Faculty of Health Sciences**  
**Department of Environmental Health Science**

**BSc. IN WATER RESOURCES AND ENVIRONMENTAL  
HEALTH MANAGEMENT**

**MAIN EXAMINATION PAPER MAY, 2018**

**TITLE OF PAPER : WATER HARVESTING**

**COURSE CODE : EHS 350**

**DURATION : 2 HOURS**

**MARKS : 100**

**INSTRUCTIONS :**

- READ THE QUESTIONS & INSTRUCTIONS CAREFULLY**
- ANSWER ANY FOUR QUESTIONS**
- EACH QUESTION CARRIES 25 MARKS.**
- WRITE NEATLY & CLEARLY**
- NO PAPER SHOULD BE BROUGHT INTO OR OUT OF THE EXAMINATION ROOM.**
- BEGIN EACH QUESTION ON A SEPARATE SHEET OF PAPER.**

**DO NOT OPEN THIS QUESTION PAPER UNTIL PERMISSION IS GRANTED BY THE INVIGILATOR.**

**Question 1**

- a) Describe what is Water Harvesting? (10)
- b) Explain what is the purpose of Water Harvesting (15)

**TOTAL 25 MARKS**

**Question 2**

Water Harvesting can be classified and categorized into four distinguished groups!!

Briefly write notes on the following categories of Water Harvesting:

- a) Flood water harvesting (10)
- b) Rooftop water harvesting (15)

**TOTAL 25 MARKS**

**Question 3**

- a) Discuss what is Runoff Coefficient (C) in water harvesting? (10)
- b) Why is Runoff Coefficient (C) important in water harvesting? (10)
- c) How is Runoff Coefficient (C) measured? (5)

**TOTAL 25 MARKS**

**Question 4**

Water Harvesting has got its benefits and constraints:

- a) What are the benefits of Water Harvesting? (15)
- b) What are the constraints of Water Harvesting? (10)

**TOTAL 25 MARKS**

**Question 5**

A Water Harvesting project cannot be implemented without budgeting and cost estimation.

What are the main components of the system that needs to be included in the cost estimation of a Water Harvesting project?

**25 MARKS**