



UNIVERSITY OF EMBU

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**2021/2022 ACADEMIC YEAR**

**FIRST SEMESTER EXAMINATIONS**

**FOURTH YEAR EXAMINATION FOR THE BACHELOR OF SCIENCE DEGREE IN  
WATER RESOURCES MANAGEMENT**

**AWM 401 – WATER RESOURCES GOVERNANCE AND POLICY**

**DATE: DECEMBER 12,2021**

**TIME: 2:00PM-5:00PM**

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**INSTRUCTIONS:**

**Answer Question One and Any Other Two Questions**

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**QUESTION ONE (30 MARKS)**

- (a) Distinguish between stakeholder participation and stakeholder engagement in water resources management and governance (2 marks)
- (b) Distinguish between water governance and water policy (2 marks)
- (c) Elaborate on the categories of stakeholders in water management and governance (4 marks)
- (d) Explain two alternative doctrines on which right to use streamflow are based in the United States (4 marks)
- (e) Outline the levels of water resources planning (4 marks)
- (f) Explain four ways in which the water sector can be financed (4 marks)



ISO 27001:2013 Certified

*Knowledge Transforms*



ISO 9001:2015 Certified

- (g) Discuss the components of the National Water Resource Strategy as outlined in Part II of the Water Act (2016) (5 marks)
- (h) Describe the importance of water allocation systems (5 marks)

**QUESTION TWO (20 MARKS)**

- (a) Evaluate the Legal reforms introduced in the water sector by the Water act of 2016. (10 Marks)
- (b) Evaluate the Institutional reforms introduced in the water sector by the Water act of 2016. (10 Marks)

**QUESTION THREE (20 MARKS)**

- (a) Describe the benefits of stakeholder involvement in water management and governance. (10 Marks)
- (b) The Turkana County Government has discovered underlying groundwater resources that if well utilized can improve water availability in the County. As an expert in water resources management, you have been contacted to guide the County on how best to allocate the resources. Explain the doctrines you would base your input on (10 Marks)

**QUESTION FOUR (20 MARKS)**

(a) Assess the gender roles in provision of water and sanitation in the Kenyan communities  
(10 marks)

b) The North-Eastern parts of Kenya has experienced predominant conflicts over water resources. Describe the conflict resolution mechanisms under the water treaties that you would consider in solving the conflict in the region  
(10 Marks)

**QUESTION FIVE (20 MARKS)**

(a) Discuss the establishment and functions of Water Resources authority under Part III of the Water Act (2016)  
(14 Marks)

(b) Describe the key targets of sustainable development goal number six (SDG 6) on clean water and sanitation.  
(6 Marks)

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