



MASENO UNIVERSITY

UNIVERSITY EXAMINATIONS 2012/2013

FOURTH YEAR FIRST SEMESTER EXAMINATIONS FOR THE DEGREE OF BACHELOR OF ARTS IN URBAN & REGIONAL PLANNING WITH INFORMATION TECHNOLOGY (CITY CAMPUS)

PUR 414: PLANNING FOR WATER AND SEWERAGE

Date: 16th July, 2013

Time: 9.00 – 11.00 a.m.

INSTRUCTIONS:

- ◆ Answer Question ONE and any other TWO questions.

PUR 414 PLANNING FOR WATER AND SEWERAGE [CITY CAMPUS]

1. a) Discuss five planning challenges related to water supply and distribution in urban areas of Kenya **(15 marks)**

b) state in detail strategies that planners can use to address the challenges in (a) above **(15 marks)**
2. Discuss key barriers to sanitation and suggest mitigation measures to address these barriers **20 marks**
3. Discuss sustainable measures to manage solid waste in urban environments **20 marks**
4. Describe five major sources of fresh water and the challenges these resources face today **20 marks**
5. Discuss
 - a) Phases in sewage treatment **(10 marks)**
 - b) 5 options/types of treatment plants **(10 marks)**
6. Discuss the hydrological cycle, its key components and the role it plays in ensuring adequate water for a nation **20 marks**