



KENYATTA UNIVERSITY

UNIVERSITY EXAMINATIONS 2014/2015

DIGITAL SCHOOL OF VIRTUAL AND OPEN LEARNING

SECOND SEMESTER EXAMINATION FOR THE DEGREE OF BACHELOR OF ARTS

AGE 305: HYDROLOGY AND WATER RESOURCES I

DATE: TUESDAY 28TH APRIL 2015

TIME: 11.00 A.M. – 1.00 P.M.

INSTRUCTIONS: Answer **Question 1** and any other **TWO** Questions.

Use illustrations where appropriate.

1. COMPULSORY

- (a) Explain the major developments in hydrology. (8 marks)
 - (b) Examine any two methods of analyzing hydrological data. (10 marks)
 - (c) Assess the water resources problems in humid and arid/semi arid areas. (12 marks)
2. Analyze the impact of human activities in the various components of the hydrological cycle. (20 marks)
3. (a) Assess the need for a hydrometric network in a river basin. (10 marks)
- (b) Examine three methods of estimating a real precipitation. (10 marks)
4. (a) Using examples, examine the impact of hydrological extremes. (10 marks)
- (b) Propose measures for mitigating the effects of hydrological extremes. (10 marks)
5. Examine the trends in the demand for any one hydrological resources. (20 marks)
