



KENYATTA UNIVERSITY

UNIVERSITY EXAMINATIONS 2014/2015

DIGITAL SCHOOL OF VIRTUAL AND OPEN LEARNING

SECOND SEMESTER EXAMINATION FOR THE DEGREE OF BACHELOR OF ARTS

AGE 404: HYDROLOGY AND WATER RESOURCES II

DATE: SUNDAY 3RD MAY 2015

TIME: 4.30 P.M. – 6.30 P.M.

INSTRUCTIONS:

Answer Question 1 and any other two questions. Use illustrations where appropriate.

1. Assess the geological structures explaining ground water occurrence, exploitation and management in a watershed. (30 marks)
2. (a) Examine the process of soil erosion and sedimentation in a watershed. (10 marks)
(b) Explain two methods of soil erosion determination in a catchment. (10 marks)
3. Examine the need and instrumentation of an experimental catchment. (20 marks)
4. (a) Explain the extent of hydrological extremes in Kenya. (6 marks)
(b) With examples, suggest mitigation measures to hydrological extremes. (14 marks)
5. (a) Account for water demand and supply management in a watershed. (10 marks)
(b) Assess any five measures for the management in (a) above. (10 marks)
