



**NATIONAL OPEN UNIVERSITY OF NIGERIA
14-16 AHMADU BELLO WAY, VICTORIA ISLAND LAGOS
SCHOOL OF SCIENCE AND TECHNOLOGY
MAY/JUNE 2012 EXAMINATION**

ESM 423 HYDROLOGY AND WATER RESOURCES

TIME ALLOWED: 2½ hrs

INSTRUCTIONS: Answer 4 questions out of 6

1. Discuss the major branches of Hydrology (25 marks)
2. Provide historical background to the science of hydrology and water resources (25 marks)
3. Identify and discuss at least 5 usefulness of Hydrology to the society. (25 marks)
4. Identify the problems of groundwater management in Nigeria. (25 marks)
5. With appropriate example, discuss how water can be a source of energy in the environment. (25 marks)
6. List and explain the major factors influencing soil moisture (25 marks)